

## **Federal Funds for Research and Development: Fiscal Years 2006-08**

Detailed Statistical Tables | NSF %\$!' \$' | CWtber 2009

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### **General Notes**

This report is volume 56 of the Federal Funds series of detailed statistical tables. It presents data collected by the Survey of Federal Funds for Research and Development for the federal fiscal years 2006–08. In February 2007 the survey was sent to all federal agencies identified as conducting R&D programs, and 28 agencies reported R&D funding levels as of the second quarter of FY 2007. The basis for reporting is determined by fiscal year.

- FY 2006 data are completed transactions
- FY 2007 data are estimates of congressional appropriation actions and apportionment and reprogramming decisions
- FY 2008 data are estimates of administration budget proposals not yet acted on

Subsequent volumes in this series will show authorization, appropriation, deferral, and apportionment actions completed after these data were collected.

The data tables provide R&D totals as outlays and obligations. Obligations data are sorted as follows:

- Character of work (basic research, applied research, development, R&D plant)
- Federal agency
- Field of science or engineering (for research but not for development)
- Geographical area
- Performer

Each year, agencies report obligations or outlays incurred or expected to be incurred in that year, no matter when the agencies' funds were authorized, appropriated, or received. Agencies report R&D funding whether or not their budgets itemize funds for research, development, and R&D plant.

Because many agency R&D programs are not identified as budget line items, agency officials must identify R&D and R&D plant activities within broader programs. Accuracy of the data depends on how well federal respondents meet these survey requirements. In 2009 the Department of the Air Force (USAF) notified NSF that it has been underreporting its major systems development totals since FY 2000. USAF is in the process of providing revised totals, which NSF will publish after review and validation. The revised figures will affect USAF, Department of Defense, and all agencies' totals for development and for R&D. Totals for other agencies, for research, and for R&D plant will not be affected.

For trend comparisons, use only the historical data for fiscal years 1987–2008 in tables 96 through 131 of this report. These tables incorporate changes agencies have made in prior-year data to reflect program reclassifications. Do not use data published earlier.

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TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FY 1951–2008  
(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
1951	1,851,571	1,521,527	NA	NA	NA	330,044
1952	2,216,848	1,909,665	120,945	NA	NA	307,183
1953	2,167,456	1,919,543	115,997	NA	NA	247,913
1954	1,918,046	1,761,840	116,033	NA	NA	156,206
1955	2,251,894	2,044,593	130,068	NA	NA	207,301
1956	3,266,903	2,988,203	206,441	645,506	2,136,256	278,700
1957	4,389,237	3,932,001	262,348	662,199	3,007,454	457,236
1958	4,906,015	4,569,722	334,543	744,264	3,490,915	336,293
1959	7,122,610	6,693,510	465,981	874,272	5,353,257	429,100
1960	8,080,015	7,551,746	590,374	1,282,135	5,679,237	528,269
1961	9,607,023	9,058,623	814,513	1,663,431	6,580,679	548,400
1962	11,069,059	10,289,947	986,314	2,018,481	7,285,152	779,112
1963	13,662,879	12,494,611	1,151,753	2,356,150	8,986,708	1,168,268
1964	15,323,870	14,225,354	1,303,000	2,571,452	10,350,902	1,098,516
1965	15,745,852	14,614,249	1,435,469	2,811,761	10,367,019	1,131,603
1966	16,178,640	15,320,334	1,579,181	3,081,066	10,660,087	858,306
1967	17,149,186	16,529,099	1,845,847	2,785,543	11,897,709	620,087
1968	16,525,038	15,921,208	1,840,562	2,940,500	11,140,146	603,830
1969	16,309,900	15,640,888	1,944,773	2,700,117	10,995,998	669,012
1970	15,863,385	15,338,937	1,925,908	2,974,890	10,438,139	524,448
1971	16,153,756	15,542,512	1,980,141	3,143,030	10,419,341	611,244
1972	17,097,951	16,495,895	2,186,937	3,360,759	10,948,199	602,056
1973	17,574,486	16,800,153	2,232,006	3,349,423	11,218,724	774,333
1974	18,176,457	17,410,128	2,387,681	3,787,559	11,234,888	766,329
1975	19,859,548	19,038,818	2,588,427	4,141,281	12,309,110	820,730
1976	21,616,382	20,779,658	2,767,454	4,851,878	13,160,326	836,724
1977	24,817,577	23,450,377	3,258,640	5,255,475	14,936,262	1,367,200
1978	27,140,849	25,845,137	3,698,604	5,908,154	16,238,379	1,295,712
1979	29,620,597	28,145,142	4,192,665	6,342,340	17,610,137	1,475,455
1980	31,386,095	29,830,432	4,674,156	6,923,222	18,233,054	1,555,663
1981	34,589,634	33,103,924	5,041,295	7,171,485	20,891,144	1,485,710
1982	37,822,363	36,432,589	5,481,605	7,540,580	23,410,404	1,389,774
1983	40,009,032	38,711,537	6,260,131	7,993,394	24,458,012	1,297,495
1984	44,012,149	42,224,865	7,067,359	7,911,414	27,246,092	1,787,284
1985	50,180,369	48,359,565	7,818,682	8,314,739	32,226,144	1,820,804
1986	52,951,181	51,412,364	8,153,076	8,349,123	34,910,165	1,538,817
1987	57,099,656	55,253,693	8,942,425	8,998,096	37,313,172	1,845,963
1988	58,826,512	56,769,425	9,473,618	9,176,527	38,119,280	2,057,087
1989	63,571,605	61,406,484	10,602,011	10,163,520	40,640,953	2,165,121
1990	65,831,189	63,559,471	11,285,593	10,336,771	41,937,107	2,271,718
1991	64,147,951	61,295,152	12,170,794	11,797,583	37,326,775	2,852,799
1992	68,577,184	65,592,590	12,489,864	12,000,734	41,101,992	2,984,594
1993	70,414,697	67,314,025	13,399,121	13,491,376	40,423,528	3,100,672
1994	69,450,776	67,235,390	13,523,476	13,887,733	39,824,181	2,215,386
1995	70,442,935	68,186,798	13,877,031	14,557,365	39,752,402	2,256,137
1996	69,399,164	67,653,047	14,464,035	13,795,729	39,393,283	1,746,117
1997	71,753,430	69,826,779	14,941,892	14,423,397	40,461,490	1,926,651
1998	73,913,988	72,100,724	15,613,012	15,309,257	41,178,455	1,813,264
1999	77,386,368	75,340,622	17,443,653	16,083,861	41,813,108	2,045,746
2000	77,356,165	72,863,318	19,569,849	18,900,781	34,392,688	4,492,847
2001	84,003,042	79,933,214	21,958,136	22,755,600	35,219,478	4,069,828
2002	90,157,711	85,852,968	23,668,345	24,338,366	37,846,257	4,304,743
2003	97,927,856	93,661,338	24,751,441	26,320,402	42,589,495	4,266,518
2004	105,370,666	101,376,514	26,120,663	27,237,148	48,018,703	3,994,152
2005	112,994,648	109,223,521	27,140,335	26,597,910	55,485,276	3,771,127



TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FY 1951–2008  
(Dollars in thousands)

Fiscal year	Total	Total R&D	Basic research	Applied research	Development	R&D plant
2006	112,270,585	110,145,803	26,584,592	26,951,058	56,610,153	2,124,782
2007 (preliminary)	116,699,753	114,501,509	27,476,511	27,598,082	59,426,916	2,198,244
2008 (preliminary)	113,212,629	111,346,018	27,720,659	26,988,023	56,637,336	1,866,611

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

NOTES: In FY 2000, National Aeronautics and Space Administration (NASA) reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. In FY 2000, National Institutes of Health reclassified all of its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FY 2006–08  
(Dollars in millions)

		Preliminary			
Character of work, performer, and field	2006	2007	% change 2006-07	2008	% change 2007-08
Outlays for research and development and R&D plant	107,439.1	110,928.3	3.2	109,625.1	-1.2
Research and development	105,398.0	108,813.8	3.2	107,746.4	-1.0
R&D plant	2,041.0	2,114.5	3.6	1,878.7	-11.2
Obligations for research and development and R&D plant	112,270.6	116,699.8	3.9	113,212.6	-3.0
Research and development	110,145.8	114,501.5	4.0	111,346.0	-2.8
Performer					
Intramural <sup>a</sup>	25,563.2	25,550.8	0.0	25,047.8	-2.0
Industry <sup>b</sup>	44,152.9	44,304.6	0.3	45,059.3	1.7
Industry FFRDCs <sup>b</sup>	1,421.9	4,655.3	227.4	1,654.9	-64.5
Universities and colleges	24,336.3	25,008.3	2.8	24,588.2	-1.7
University and college FFRDCs	5,439.1	5,655.8	4.0	5,746.9	1.6
Other nonprofit institutions	6,000.1	6,063.8	1.1	5,897.7	-2.7
Nonprofit FFRDCs	1,816.0	2,048.0	12.8	2,150.2	5.0
State and local governments	619.6	555.7	-10.3	528.4	-4.9
Foreign	796.7	659.3	-17.2	672.7	2.0
Research	53,535.7	55,074.6	2.9	54,708.7	-0.7
Performer					
Intramural <sup>a</sup>	12,261.6	12,343.5	0.7	12,544.3	1.6
Industry	6,436.3	6,981.9	8.5	6,400.1	-8.3
Industry FFRDCs	947.9	895.9	-5.5	945.1	5.5
Universities and colleges	22,809.4	23,297.2	2.1	23,169.1	-0.5
University and college FFRDCs	3,783.0	4,052.4	7.1	4,157.5	2.6
Other nonprofit institutions	5,448.9	5,507.0	1.1	5,453.5	-1.0
Nonprofit FFRDCs	1,028.6	1,190.0	15.7	1,241.5	4.3
State and local governments	417.9	398.3	-4.7	392.4	-1.5
Foreign	402.1	408.3	1.5	405.1	-0.8
Field of science					
Environmental sciences	3,430.6	3,343.2	-2.5	3,408.3	1.9
Life sciences	27,927.7	27,814.4	-0.4	27,532.7	-1.0
Mathematics and computer sciences	2,814.9	3,193.6	13.5	3,129.2	-2.0
Physical sciences	5,351.1	5,467.9	2.2	5,607.0	2.5
Psychology	1,747.3	1,757.0	0.6	1,758.3	0.1
Social sciences	1,123.9	1,141.0	1.5	1,146.3	0.5
Other sciences, nec	2,461.3	2,931.6	19.1	2,868.5	-2.2
Engineering	8,678.7	9,426.0	8.6	9,258.4	-1.8
Basic research	26,584.6	27,476.5	3.4	27,720.7	0.9
Performer					
Intramural <sup>a</sup>	4,763.6	4,888.7	2.6	4,911.2	0.5
Industry	1,858.9	1,978.0	6.4	1,974.9	-0.2
Industry FFRDCs	220.4	235.6	6.9	229.8	-2.5
Universities and colleges	13,657.6	13,930.5	2.0	14,002.5	0.5
University and college FFRDCs	2,096.8	2,324.6	10.9	2,408.0	3.6
Other nonprofit institutions	2,867.4	2,839.1	-1.0	2,858.0	0.7
Nonprofit FFRDCs	755.8	916.3	21.2	971.1	6.0
State and local governments	152.7	152.2	-0.4	153.6	0.9
Foreign	211.2	211.6	0.2	211.6	0.0
Field of science					
Environmental sciences	1,849.5	1,897.9	2.6	1,957.2	3.1
Life sciences	14,934.4	14,793.1	-0.9	14,732.2	-0.4
Mathematics and computer sciences	1,208.2	1,317.5	9.0	1,394.5	5.8
Physical sciences	3,515.5	3,800.9	8.1	3,940.0	3.7
Psychology	944.9	952.6	0.8	948.6	-0.4
Social sciences	381.0	393.3	3.2	397.3	1.0

TABLE 2. Summary of federal obligations and outlays for research, development, and R&D plant, by character of work, performer, and field: FY 2006–08  
(Dollars in millions)

Character of work, performer, and field	2006	Preliminary			
		2007	% change 2006–07	2008	% change 2007–08
Other sciences, nec	1,386.5	1,640.9	18.4	1,639.7	-0.1
Engineering	2,364.6	2,680.4	13.4	2,711.2	1.2
Applied research	26,951.1	27,598.1	2.4	26,988.0	-2.2
Performer					
Intramural <sup>a</sup>	7,498.0	7,454.8	-0.6	7,633.1	2.4
Industry	4,577.4	5,003.9	9.3	4,425.2	-11.6
Industry FFRDCs	727.5	660.3	-9.2	715.4	8.3
Universities and colleges	9,151.8	9,366.8	2.3	9,166.7	-2.1
University and college FFRDCs	1,686.2	1,727.8	2.5	1,749.5	1.3
Other nonprofit institutions	2,581.5	2,667.9	3.3	2,595.5	-2.7
Nonprofit FFRDCs	272.8	273.8	0.4	270.3	-1.3
State and local governments	265.1	246.1	-7.2	238.8	-3.0
Foreign	190.9	196.7	3.1	193.6	-1.6
Field of science					
Environmental sciences	1,581.1	1,445.4	-8.6	1,451.1	0.4
Life sciences	12,993.3	13,021.3	0.2	12,800.5	-1.7
Mathematics and computer sciences	1,606.7	1,876.1	16.8	1,734.7	-7.5
Physical sciences	1,835.6	1,667.0	-9.2	1,667.1	0.0
Psychology	802.4	804.4	0.2	809.7	0.7
Social sciences	742.9	747.7	0.6	749.0	0.2
Other sciences, nec	1,074.9	1,290.7	20.1	1,228.8	-4.8
Engineering	6,314.2	6,745.6	6.8	6,547.2	-2.9
Development	56,610.2	59,426.9	5.0	56,637.3	-4.7
Performer					
Intramural <sup>a</sup>	13,301.6	13,207.3	-0.7	12,503.5	-5.3
Industry <sup>b</sup>	37,716.6	37,322.6	-1.0	38,659.2	3.6
Industry FFRDCs <sup>b</sup>	474.0	3,759.4	693.1	709.7	-81.1
Universities and colleges	1,526.9	1,711.1	12.1	1,419.1	-17.1
University and college FFRDCs	1,656.1	1,603.5	-3.2	1,589.4	-0.9
Other nonprofit institutions	551.2	556.8	1.0	444.2	-20.2
Nonprofit FFRDCs	787.4	858.0	9.0	908.7	5.9
State and local governments	201.7	157.4	-22.0	136.0	-13.6
Foreign	394.6	251.0	-36.4	267.6	6.6
R&D plant	2,124.8	2,198.2	3.5	1,866.6	-15.1
Performer					
Intramural <sup>a</sup>	662.8	600.5	-9.4	348.7	-41.9
Industry	265.8	241.5	-9.1	220.8	-8.6
Industry FFRDCs	82.7	22.9	-72.3	59.7	160.2
Universities and colleges	262.5	318.1	21.2	320.4	0.7
University and college FFRDCs	519.3	572.1	10.2	414.0	-27.6
Other nonprofit institutions	127.3	135.0	6.1	139.3	3.2
Nonprofit FFRDCs	201.6	307.3	52.4	363.1	18.2
State and local governments	2.6	0.4	-83.9	0.4	-8.2
Foreign	0.3	0.3	8.0	0.3	4.4

FFRDCs = federally funded research and development centers; nec = not elsewhere classified.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2007 Department of the Army misreported approximately \$3.2 billion of major systems development obligations to industry FFRDCs; these obligations should have been reported to industry. Reporting of actual FY 2007 data in the forthcoming Volume 57 (FY 2007–09) of the Federal Funds series of detailed statistical tables will correct this error.

NOTES: Because of rounding, detail may not add to total. Percentages are computed using dollars in thousands.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FY 2006–08  
(Dollars in millions)

Agency	Obligations			Outlays		
	2006	Preliminary		2006	Preliminary	
		2007	2008		2007	2008
All agencies	112,270.6	116,699.8	113,212.6	107,439.1	110,928.3	109,625.1
Departments						
Department of Agriculture	2,386.2	2,427.9	2,000.6	2,369.5	2,358.7	2,299.8
Agricultural Marketing Service	6.3	6.6	6.8	6.3	6.5	6.6
Agricultural Research Service	1,294.0	1,209.8	1,021.5	1,305.7	1,208.1	1,144.5
Animal and Plant Health Inspection Service	25.5	26.1	31.3	25.5	26.8	31.7
Cooperative State Research, Education, and Extension Service	645.1	743.2	536.2	586.0	677.3	655.8
Economic Research Service	75.0	75.2	82.5	72.8	77.0	84.0
Foreign Agricultural Service	0.9	0.9	0.9	0.9	0.9	0.9
Forest Service	321.6	350.1	305.5	354.5	346.1	360.5
Grain Inspection, Packers, and Stockyards Administration	7.1	6.7	7.9	7.1	6.7	7.9
National Agricultural Statistics Service	6.5	6.7	6.9	6.5	6.7	6.9
Rural Business-Cooperative Service	4.1	2.6	1.1	4.1	2.6	1.1
Department of Commerce	1,016.2	1,018.8	1,064.2	710.2	656.1	706.6
Economic Development Administration	0.2	1.1	0.0	0.2	1.1	0.0
National Institute of Standards and Technology	429.0	520.9	514.4	467.1	467.7	495.5
National Oceanic and Atmospheric Administration	558.2	467.9	516.3	215.5	158.6	177.9
National Telecommunications and Information Administration	6.7	7.1	7.1	5.3	6.7	7.1
U.S. Census Bureau	22.1	21.8	26.3	22.0	22.0	26.0
Department of Defense	54,349.8	58,531.0	54,971.1	52,348.1	54,746.3	53,301.5
Defense agencies and activities	14,338.4	17,380.1	16,572.7	14,005.4	16,262.5	15,942.1
Chemical and Biological Defense	586.6	534.2	912.0	458.2	435.8	720.3
Defense Advanced Research Projects Agency	2,386.3	3,606.7	3,397.4	2,839.4	3,000.9	3,074.4
Defense Business Transformation Agency	32.2	129.9	185.5	14.1	75.9	99.4
Defense Contract Management Agency	13.9	10.4	11.3	11.2	11.0	11.1
Defense Information Systems Agency	272.2	349.0	341.7	203.5	275.4	274.4
Defense Logistics Agency	204.1	227.2	73.9	179.1	208.4	105.5
Defense Security Service	16.6	35.3	34.4	16.6	35.3	34.4
Defense Technical Information Center	47.6	48.9	51.8	0.0	0.0	0.0
Defense Threat Reduction Agency	458.2	449.5	420.1	464.4	443.8	431.2
Joint Staff	82.1	68.1	69.9	82.1	68.1	69.9
Missile Defense Agency	7,950.5	9,430.6	8,795.8	7,658.4	9,438.2	8,899.1
Office of the Secretary of Defense <sup>a</sup>	1,718.9	1,829.9	1,886.4	1,555.4	1,699.6	1,777.8
Special Operations Command	569.3	660.3	392.4	522.9	570.2	444.6
Department of the Air Force	10,115.1	10,632.9	10,707.0	9,976.3	10,608.7	10,513.8
Materiel Command	6,836.9	7,293.2	6,972.3	6,753.8	7,376.7	7,172.9
Space Command	3,278.1	3,339.7	3,734.7	3,222.5	3,232.0	3,340.9
Department of the Army	11,318.3	10,914.8	10,309.4	10,662.1	9,374.4	8,766.6
Department of the Navy	18,399.1	19,422.6	17,201.5	17,442.7	18,318.2	17,904.5
Operational Test and Evaluation, Director	178.9	180.6	180.5	261.6	182.4	174.4
Department of Education	337.0	333.0	337.3	254.5	612.2	354.2
Department of Energy	8,340.1	8,899.1	9,424.8	8,213.1	8,862.5	9,408.6
Bonneville Power Administration	10.7	11.0	8.9	10.7	11.0	8.9
Civilian Radioactive Waste Management	52.9	12.4	28.9	52.9	12.4	28.9
Electricity Delivery and Energy Restoration	133.5	94.2	81.7	108.3	94.2	81.7
Energy Efficiency and Renewable Energy	456.7	768.7	648.7	456.7	768.7	648.7
Environmental Management	34.0	21.4	21.4	34.0	21.4	21.4
Fossil Energy	455.0	439.3	418.4	386.1	383.4	397.3

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FY 2006–08  
(Dollars in millions)

Agency	Obligations			Outlays		
	2006	Preliminary		2006	Preliminary	
		2007	2008		2007	2008
National Nuclear Security Administration	3,861.9	3,665.4	3,742.6	3,858.1	3,695.3	3,747.5
Defense Programs	2,865.2	2,703.3	2,752.6	2,865.2	2,703.3	2,752.6
Naval Reactors	753.4	749.1	776.9	749.6	778.9	781.8
Nonproliferation and Verification	243.3	213.0	213.0	243.3	213.0	213.0
Nuclear Energy	89.0	77.7	422.2	89.0	77.7	422.2
Office of Science	3,246.4	3,809.1	4,052.0	3,217.3	3,798.6	4,052.0
Department of Health and Human Services	29,126.5	29,027.5	28,960.3	28,799.4	28,686.1	28,624.4
Administration for Children and Families	14.4	14.7	15.1	13.4	13.3	13.6
Administration on Aging	2.9	0.0	0.0	3.0	0.9	0.7
Agency for Healthcare Research and Quality	318.7	318.7	329.6	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	9.0	10.9	6.4	9.0	10.9	6.4
Centers for Disease Control and Prevention	688.5	602.9	534.2	688.5	602.9	534.2
Centers for Medicare and Medicaid Services	62.4	57.4	33.7	62.4	41.5	33.7
Food and Drug Administration	147.2	144.9	140.1	139.8	138.5	134.6
Health Resources and Services Administration	24.1	24.3	24.1	24.1	24.3	24.1
National Institutes of Health	27,778.1	27,828.3	27,851.8	27,778.1	27,828.3	27,851.8
Office of the Secretary	26.8	25.4	25.4	26.8	25.4	25.4
Office of the Assistant Secretary, Planning and Evaluation	26.8	25.4	25.4	26.8	25.4	25.4
Substance Abuse and Mental Health Services Administration	54.3	0.0	0.0	54.3	0.0	0.0
Department of Homeland Security	1,857.2	1,108.8	819.6	1,713.9	1,148.1	844.9
Science and Technology Directorate	1,823.0	1,083.0	799.1	1,677.0	1,128.0	827.5
Transportation Security Administration	11.7	2.6	0.0	12.2	2.6	0.0
U.S. Coast Guard	21.5	22.3	19.6	23.8	16.6	16.5
U.S. Secret Service	1.0	0.9	0.9	1.0	0.9	0.9
Department of Housing and Urban Development	33.5	37.4	40.5	42.0	37.6	38.4
Department of the Interior	608.5	593.1	588.6	607.6	593.8	589.3
Bureau of Reclamation	11.1	10.5	13.4	11.1	10.5	13.4
Geological Survey	561.5	553.5	547.1	561.5	553.5	547.1
Minerals Management Service	32.1	29.0	28.1	31.2	29.7	28.8
National Park Service <sup>b</sup>	3.8	0.0	0.0	3.8	0.0	0.0
Department of Justice	127.9	157.6	101.8	71.4	103.8	58.4
Bureau of Prisons	12.2	11.3	11.4	12.1	11.5	11.3
Federal Bureau of Investigation	34.3	70.8	22.9	34.3	70.8	22.9
Office of Justice Programs	81.5	75.4	67.5	25.0	21.4	24.2
Department of Labor	95.3	215.7	190.1	94.3	214.8	189.2
Bureau of Labor Statistics	22.8	22.6	22.8	22.8	22.6	22.8
Employee Benefits Security Administration	2.6	2.6	2.6	1.6	1.7	1.7
Employment and Training Administration	64.1	184.7	159.0	64.1	184.7	159.0
Occupational Safety and Health Administration	3.5	3.7	3.8	3.5	3.7	3.8
Office of the Secretary	0.3	0.3	0.3	0.3	0.3	0.3
Pension Benefit Guaranty Corporation	1.9	1.8	1.7	1.9	1.8	1.7
Department of State	4.2	4.3	4.8	3.4	3.6	4.0
Department of Transportation	838.0	843.6	857.4	884.3	939.3	910.6
Federal Aviation Administration	277.0	250.1	255.6	307.0	297.0	264.0
Federal Highway Administration	400.1	447.3	458.2	400.1	456.8	468.1
Federal Motor Carrier Safety Administration	5.3	8.7	6.6	4.2	2.0	4.0
Federal Railroad Administration	49.0	44.8	34.5	58.7	47.6	49.0
Federal Transit Administration	16.6	10.4	12.8	6.5	9.0	11.0
National Highway Traffic Safety Administration	57.5	57.5	65.7	75.0	88.0	90.0

TABLE 3. Federal obligations and outlays for research, development, and R&D plant, by agency: FY 2006–08  
(Dollars in millions)

Agency	Obligations			Outlays		
	2006	Preliminary		2006	Preliminary	
		2007	2008		2007	2008
Office of the Secretary	14.8	4.9	9.1	15.6	22.0	10.0
Pipeline and Hazardous Materials Safety Administration	15.2	14.9	6.6	15.2	14.9	6.6
Research and Innovative Technology Administration	2.5	5.0	8.4	2.0	2.0	8.0
Department of the Treasury	68.8	69.8	75.9	65.1	66.3	72.9
Bureau of Engraving and Printing	6.0	8.1	8.9	6.0	8.1	8.9
Internal Revenue Service	55.4	54.7	61.0	55.4	54.7	61.0
U.S. Mint	7.4	7.0	6.0	3.7	3.5	3.0
Department of Veterans Affairs	412.0	414.0	411.0	412.0	414.0	411.0
Other agencies						
Agency for International Development	255.0	255.0	255.0	255.0	255.0	255.0
Appalachian Regional Commission	1.0	0.7	0.7	0.7	0.6	0.6
Broadcasting Board of Governors	0.2	0.0	0.0	0.2	0.0	0.0
Environmental Protection Agency	621.5	553.5	539.8	0.2	0.4	0.4
Federal Communications Commission	7.6	9.9	6.8	7.6	9.9	6.8
Federal Trade Commission	1.6	1.7	2.0	1.6	1.7	2.0
Library of Congress	7.3	7.0	4.4	7.4	13.0	7.6
National Aeronautics and Space Administration	7,250.0	7,331.3	7,347.3	6,209.6	6,520.1	6,846.1
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	4,239.5	4,522.5	4,855.6	4,102.0	4,364.0	4,354.0
Nuclear Regulatory Commission	71.4	76.5	70.9	59.0	62.0	59.0
Smithsonian Institution	146.4	160.6	181.3	139.0	159.0	179.0
Social Security Administration	67.8	99.4	100.7	67.8	99.4	100.7

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 4. Federal obligations and outlays for research and development, by agency: FY 2006–08  
(Dollars in millions)

Agency	Obligations			Outlays		
	2006	Preliminary		2006	Preliminary	
		2007	2008		2007	2008
All agencies	110,145.8	114,501.5	111,346.0	105,398.0	108,813.8	107,746.4
Departments						
Department of Agriculture	2,213.7	2,266.8	1,980.1	2,185.0	2,185.9	2,144.1
Agricultural Marketing Service	6.3	6.6	6.8	6.3	6.5	6.6
Agricultural Research Service	1,134.9	1,069.8	1,021.5	1,134.7	1,056.4	1,009.3
Animal and Plant Health Inspection Service	25.5	26.1	31.3	25.5	26.8	31.7
Cooperative State Research, Education, and Extension Service	645.1	743.2	536.2	586.0	677.3	655.8
Economic Research Service	75.0	75.2	82.5	72.8	77.0	84.0
Foreign Agricultural Service	0.9	0.9	0.9	0.9	0.9	0.9
Forest Service	308.1	329.0	285.0	341.0	325.0	340.0
Grain Inspection, Packers, and Stockyards Administration	7.1	6.7	7.9	7.1	6.7	7.9
National Agricultural Statistics Service	6.5	6.7	6.9	6.5	6.7	6.9
Rural Business-Cooperative Service	4.1	2.6	1.1	4.1	2.6	1.1
Department of Commerce	941.7	912.6	931.8	664.2	611.8	655.0
Economic Development Administration	0.2	1.1	0.0	0.2	1.1	0.0
National Institute of Standards and Technology	385.7	453.2	420.6	421.1	423.5	444.0
National Oceanic and Atmospheric Administration	526.9	429.4	477.8	215.5	158.6	177.9
National Telecommunications and Information Administration	6.7	7.1	7.1	5.3	6.7	7.1
U.S. Census Bureau	22.1	21.8	26.3	22.0	22.0	26.0
Department of Defense	54,286.5	58,444.9	54,932.1	52,254.8	54,634.1	53,234.4
Defense agencies and activities	14,303.6	17,322.4	16,559.7	13,970.6	16,207.9	15,934.4
Chemical and Biological Defense	585.5	526.2	899.5	457.1	431.0	713.0
Defense Advanced Research Projects Agency	2,386.3	3,606.7	3,397.4	2,839.4	3,000.9	3,074.4
Defense Business Transformation Agency	32.2	129.9	185.5	14.1	75.9	99.4
Defense Contract Management Agency	13.9	10.4	11.3	11.2	11.0	11.1
Defense Information Systems Agency	272.2	349.0	341.7	203.5	275.4	274.4
Defense Logistics Agency	204.1	227.2	73.9	179.1	208.4	105.5
Defense Security Service	16.6	35.3	34.4	16.6	35.3	34.4
Defense Technical Information Center	47.6	48.9	51.8	0.0	0.0	0.0
Defense Threat Reduction Agency	458.2	449.5	420.1	464.4	443.8	431.2
Joint Staff	82.1	68.1	69.9	82.1	68.1	69.9
Missile Defense Agency	7,917.1	9,381.3	8,795.8	7,625.0	9,388.9	8,899.1
Office of the Secretary of Defense <sup>a</sup>	1,718.6	1,829.5	1,885.9	1,555.1	1,699.1	1,777.4
Special Operations Command	569.3	660.3	392.4	522.9	570.2	444.6
Department of the Air Force	10,103.8	10,619.3	10,696.4	9,937.6	10,567.4	10,472.1
Materiel Command	6,825.6	7,279.6	6,961.7	6,715.1	7,335.3	7,131.2
Space Command	3,278.1	3,339.7	3,734.7	3,222.5	3,232.0	3,340.9
Department of the Army	11,318.3	10,914.8	10,309.4	10,662.1	9,374.4	8,766.6
Department of the Navy	18,381.9	19,407.9	17,186.0	17,422.9	18,302.0	17,886.9
Operational Test and Evaluation, Director	178.9	180.6	180.5	261.6	182.4	174.4
Department of Education	337.0	333.0	337.3	254.5	612.2	354.2
Department of Energy	7,562.0	8,010.2	8,589.8	7,432.9	7,954.1	8,573.1
Bonneville Power Administration	10.7	11.0	8.9	10.7	11.0	8.9
Civilian Radioactive Waste Management	52.9	12.4	28.9	52.9	12.4	28.9
Electricity Delivery and Energy Restoration	133.5	94.2	81.7	108.3	94.2	81.7
Energy Efficiency and Renewable Energy	430.6	661.6	641.7	430.6	661.6	641.7
Environmental Management	34.0	21.4	21.4	34.0	21.4	21.4
Fossil Energy	435.7	427.8	417.7	365.6	371.3	396.6

TABLE 4. Federal obligations and outlays for research and development, by agency: FY 2006–08  
(Dollars in millions)

Agency	Obligations			Outlays		
	2006	Preliminary		2006	Preliminary	
		2007	2008		2007	2008
National Nuclear Security Administration	3,557.3	3,447.2	3,606.4	3,547.6	3,458.0	3,610.8
Defense Programs	2,593.6	2,506.5	2,655.8	2,593.6	2,506.5	2,655.8
Naval Reactors	720.4	727.6	737.5	710.7	738.5	741.9
Nonproliferation and Verification	243.3	213.0	213.0	243.3	213.0	213.0
Nuclear Energy	89.0	77.7	392.2	89.0	77.7	392.2
Office of Science	2,818.3	3,257.0	3,390.9	2,794.1	3,246.6	3,390.9
Department of Health and Human Services	28,765.6	28,752.5	28,813.6	28,440.6	28,412.1	28,478.1
Administration for Children and Families	14.4	14.7	15.1	13.4	13.3	13.6
Administration on Aging	2.9	0.0	0.0	3.0	0.9	0.7
Agency for Healthcare Research and Quality	318.7	318.7	329.6	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	9.0	10.9	6.4	9.0	10.9	6.4
Centers for Disease Control and Prevention	544.6	534.2	534.2	544.6	534.2	534.2
Centers for Medicare and Medicaid Services	62.4	57.4	33.7	62.4	41.5	33.7
Food and Drug Administration	143.3	142.6	137.8	138.0	137.3	132.7
Health Resources and Services Administration	23.6	23.7	23.5	23.6	23.7	23.5
National Institutes of Health	27,565.6	27,624.9	27,707.9	27,565.6	27,624.9	27,707.9
Office of the Secretary	26.8	25.4	25.4	26.8	25.4	25.4
Office of the Assistant Secretary, Planning and Evaluation	26.8	25.4	25.4	26.8	25.4	25.4
Substance Abuse and Mental Health Services Administration	54.3	0.0	0.0	54.3	0.0	0.0
Department of Homeland Security	1,725.4	998.9	738.3	1,592.7	1,033.7	760.7
Science and Technology Directorate	1,691.6	974.1	718.8	1,556.1	1,014.6	744.3
Transportation Security Administration	11.7	2.6	0.0	12.2	2.6	0.0
U.S. Coast Guard	21.2	21.3	18.6	23.4	15.6	15.5
U.S. Secret Service	1.0	0.9	0.9	1.0	0.9	0.9
Department of Housing and Urban Development	33.5	37.4	40.5	42.0	37.6	38.4
Department of the Interior	603.0	588.5	582.1	602.3	588.9	582.5
Bureau of Reclamation	8.8	8.5	9.0	8.8	8.5	9.0
Geological Survey	561.5	553.5	547.1	561.5	553.5	547.1
Minerals Management Service	28.9	26.4	26.0	28.1	26.9	26.4
National Park Service <sup>b</sup>	3.8	0.0	0.0	3.8	0.0	0.0
Department of Justice	127.9	157.6	101.8	71.4	103.8	58.4
Bureau of Prisons	12.2	11.3	11.4	12.1	11.5	11.3
Federal Bureau of Investigation	34.3	70.8	22.9	34.3	70.8	22.9
Office of Justice Programs	81.5	75.4	67.5	25.0	21.4	24.2
Department of Labor	95.3	215.7	190.1	94.3	214.8	189.2
Bureau of Labor Statistics	22.8	22.6	22.8	22.8	22.6	22.8
Employee Benefits Security Administration	2.6	2.6	2.6	1.6	1.7	1.7
Employment and Training Administration	64.1	184.7	159.0	64.1	184.7	159.0
Occupational Safety and Health Administration	3.5	3.7	3.8	3.5	3.7	3.8
Office of the Secretary	0.3	0.3	0.3	0.3	0.3	0.3
Pension Benefit Guaranty Corporation	1.9	1.8	1.7	1.9	1.8	1.7
Department of State	4.2	4.3	4.8	3.4	3.6	4.0
Department of Transportation	819.2	824.3	838.3	866.2	920.8	895.8
Federal Aviation Administration	260.0	232.7	238.4	290.0	280.0	251.0
Federal Highway Administration	400.1	447.3	458.2	400.1	456.8	468.1
Federal Motor Carrier Safety Administration	5.3	8.7	6.6	4.2	2.0	4.0
Federal Railroad Administration	47.2	42.9	32.6	57.6	46.1	47.2
Federal Transit Administration	16.6	10.4	12.8	6.5	9.0	11.0
National Highway Traffic Safety Administration	57.5	57.5	65.7	75.0	88.0	90.0



TABLE 4. Federal obligations and outlays for research and development, by agency: FY 2006–08  
(Dollars in millions)

Agency	Obligations			Outlays		
	2006	Preliminary		2006	Preliminary	
		2007	2008		2007	2008
Office of the Secretary	14.8	4.9	9.1	15.6	22.0	10.0
Pipeline and Hazardous Materials Safety Administration	15.2	14.9	6.6	15.2	14.9	6.6
Research and Innovative Technology Administration	2.5	5.0	8.4	2.0	2.0	8.0
Department of the Treasury	65.1	66.3	72.9	65.1	66.3	72.9
Bureau of Engraving and Printing	6.0	8.1	8.9	6.0	8.1	8.9
Internal Revenue Service	55.4	54.7	61.0	55.4	54.7	61.0
U.S. Mint	3.7	3.5	3.0	3.7	3.5	3.0
Department of Veterans Affairs	411.6	413.6	410.6	411.6	413.6	410.6
Other agencies						
Agency for International Development	255.0	255.0	255.0	255.0	255.0	255.0
Appalachian Regional Commission	1.0	0.7	0.7	0.7	0.6	0.6
Broadcasting Board of Governors	0.2	0.0	0.0	0.2	0.0	0.0
Environmental Protection Agency	621.5	553.5	539.8	0.2	0.4	0.4
Federal Communications Commission	7.6	9.9	6.8	7.6	9.9	6.8
Federal Trade Commission	1.6	1.7	2.0	1.6	1.7	2.0
Library of Congress	7.3	7.0	4.4	7.4	13.0	7.6
National Aeronautics and Space Administration	7,211.0	7,292.1	7,307.6	6,197.4	6,507.3	6,832.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	3,790.6	4,051.0	4,357.7	3,707.0	3,943.0	3,894.0
Nuclear Regulatory Commission	71.4	76.5	70.9	59.0	62.0	59.0
Smithsonian Institution	119.0	128.0	136.0	113.0	128.0	136.0
Social Security Administration	67.8	99.4	100.7	67.8	99.4	100.7

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2006  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	110,145,803	26,584,592	26,951,058	56,610,153	NA	NA
Departments						
Department of Agriculture	2,213,657	945,797	1,084,741	183,119	NA	NA
Agricultural Marketing Service	6,337	0	6,337	0	NA	NA
Agricultural Research Service	1,134,940	556,121	465,325	113,494	NA	NA
Animal and Plant Health Inspection Service	25,542	0	0	25,542	NA	NA
Cooperative State Research, Education, and Extension Service	645,095	254,175	390,920	0	NA	NA
Economic Research Service	75,004	7,500	67,504	0	NA	NA
Foreign Agricultural Service	864	242	622	0	NA	NA
Forest Service	308,103	125,870	138,150	44,083	NA	NA
Grain Inspection, Packers, and Stockyards Administration	7,112	0	7,112	0	NA	NA
National Agricultural Statistics Service	6,515	1,889	4,626	0	NA	NA
Rural Business-Cooperative Service	4,145	0	4,145	0	NA	NA
Department of Commerce	941,657	72,834	767,340	101,483	NA	NA
Economic Development Administration	233	0	233	0	NA	NA
National Institute of Standards and Technology	385,717	72,834	282,620	30,263	NA	NA
National Oceanic and Atmospheric Administration	526,902	0	471,805	55,097	NA	NA
National Telecommunications and Information Administration	6,680	0	6,680	0	NA	NA
U.S. Census Bureau	22,125	0	6,002	16,123	NA	NA
Department of Defense	54,286,517	1,304,189	4,447,745	48,534,583	5,865,682	42,668,901
Defense agencies and activities	14,303,636	160,473	1,580,168	12,562,995	2,699,674	9,863,321
Chemical and Biological Defense	585,513	21,899	75,743	487,871	142,756	345,115
Defense Advanced Research Projects Agency	2,386,297	105,905	1,079,442	1,200,950	1,100,543	100,407
Defense Business Transformation Agency	32,178	0	0	32,178	0	32,178
Defense Contract Management Agency	13,884	0	0	13,884	0	13,884
Defense Information Systems Agency	272,233	0	0	272,233	0	272,233
Defense Logistics Agency	204,119	0	0	204,119	155,251	48,868
Defense Security Service	16,609	0	0	16,609	0	16,609
Defense Technical Information Center	47,594	0	0	47,594	0	47,594
Defense Threat Reduction Agency	458,203	0	331,703	126,500	121,767	4,733
Joint Staff	82,085	0	0	82,085	0	82,085
Missile Defense Agency	7,917,059	0	0	7,917,059	148,651	7,768,408
Office of the Secretary of Defense <sup>a</sup>	1,718,570	32,669	67,547	1,618,354	885,822	732,532
Special Operations Command	569,292	0	25,733	543,559	144,884	398,675
Department of the Air Force	10,103,750	350,641	1,000,454	8,752,655	640,103	8,112,552
Materiel Command	6,825,638	350,641	1,000,454	5,474,543	640,103	4,834,440
Space Command	3,278,112	0	0	3,278,112	0	3,278,112
Department of the Army	11,318,259	348,820	1,103,778	9,865,661	1,580,316	8,285,345
Department of the Navy	18,381,932	444,255	763,345	17,174,332	945,589	16,228,743
Operational Test and Evaluation, Director	178,940	0	0	178,940	0	178,940
Department of Education	337,002	2,564	212,998	121,440	NA	NA
Department of Energy	7,561,977	2,834,560	2,885,693	1,841,724	NA	NA
Bonneville Power Administration	10,734	0	9,755	979	NA	NA
Civilian Radioactive Waste Management	52,922	0	52,922	0	NA	NA
Electricity Delivery and Energy Restoration	133,499	0	93,449	40,050	NA	NA
Energy Efficiency and Renewable Energy	430,649	1,157	210,171	219,321	NA	NA
Environmental Management	33,976	0	10,192	23,784	NA	NA
Fossil Energy	435,681	7,320	210,812	217,549	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2006  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
National Nuclear Security Administration	3,557,268	7,795	2,210,920	1,338,553	NA	NA
Defense Programs	2,593,584	0	2,076,191	517,393	NA	NA
Naval Reactors	720,370	0	0	720,370	NA	NA
Nonproliferation and Verification	243,314	7,795	134,729	100,790	NA	NA
Nuclear Energy	88,960	0	87,472	1,488	NA	NA
Office of Science	2,818,288	2,818,288	0	0	NA	NA
Department of Health and Human Services	28,765,598	15,539,560	13,140,032	86,006	NA	NA
Administration for Children and Families	14,445	0	14,445	0	NA	NA
Administration on Aging	2,931	0	2,931	0	NA	NA
Agency for Healthcare Research and Quality	318,674	0	293,180	25,494	NA	NA
Agency for Toxic Substances and Disease Registry	8,966	0	8,966	0	NA	NA
Centers for Disease Control and Prevention	544,583	0	544,583	0	NA	NA
Centers for Medicare and Medicaid Services	62,394	0	62,394	0	NA	NA
Food and Drug Administration	143,349	0	143,349	0	NA	NA
Health Resources and Services Administration	23,578	2,584	14,758	6,236	NA	NA
National Institutes of Health	27,565,559	15,536,976	12,028,583	0	NA	NA
Office of the Secretary	26,843	0	26,843	0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	26,843	0	26,843	0	NA	NA
Substance Abuse and Mental Health Services Administration	54,276	0	0	54,276	NA	NA
Department of Homeland Security	1,725,414	79,847	526,336	1,119,231	NA	NA
Science and Technology Directorate	1,691,562	79,847	515,727	1,095,988	NA	NA
Transportation Security Administration	11,666	0	2,576	9,090	NA	NA
U.S. Coast Guard	21,218	0	7,065	14,153	NA	NA
U.S. Secret Service	968	0	968	0	NA	NA
Department of Housing and Urban Development	33,470	0	11,502	21,968	NA	NA
Department of the Interior	603,022	42,088	508,984	51,950	NA	NA
Bureau of Reclamation	8,814	0	3,085	5,729	NA	NA
Geological Survey	561,490	42,088	473,376	46,026	NA	NA
Minerals Management Service	28,869	0	28,869	0	NA	NA
National Park Service <sup>b</sup>	3,849	0	3,654	195	NA	NA
Department of Justice	127,949	18,089	34,883	74,977	NA	NA
Bureau of Prisons	12,188	0	2,744	9,444	NA	NA
Federal Bureau of Investigation	34,295	0	0	34,295	NA	NA
Office of Justice Programs	81,466	18,089	32,139	31,238	NA	NA
Department of Labor	95,256	13,600	16,536	65,120	NA	NA
Bureau of Labor Statistics	22,800	13,600	9,200	0	NA	NA
Employee Benefits Security Administration	2,622	0	2,622	0	NA	NA
Employment and Training Administration	64,131	0	660	63,471	NA	NA
Occupational Safety and Health Administration	3,500	0	3,500	0	NA	NA
Office of the Secretary	339	0	339	0	NA	NA
Pension Benefit Guaranty Corporation	1,864	0	215	1,649	NA	NA
Department of State	4,161	0	4,161	0	NA	NA
Department of Transportation	819,234	1,574	533,617	284,043	NA	NA
Federal Aviation Administration	260,034	0	136,620	123,414	NA	NA
Federal Highway Administration	400,107	1,574	286,823	111,710	NA	NA
Federal Motor Carrier Safety Administration	5,313	0	5,313	0	NA	NA
Federal Railroad Administration	47,194	0	40,823	6,371	NA	NA
Federal Transit Administration	16,575	0	3,559	13,016	NA	NA
National Highway Traffic Safety Administration	57,510	0	57,510	0	NA	NA

TABLE 5. Federal obligations for research and development, by agency and character of work: FY 2006  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Office of the Secretary	14,842	0	0	14,842	NA	NA
Pipeline and Hazardous Materials Safety Administration	15,178	0	2,225	12,953	NA	NA
Research and Innovative Technology Administration	2,481	0	744	1,737	NA	NA
Department of the Treasury	65,092	270	60,448	4,374	NA	NA
Bureau of Engraving and Printing	6,004	270	5,060	674	NA	NA
Internal Revenue Service	55,388	0	55,388	0	NA	NA
U.S. Mint	3,700	0	0	3,700	NA	NA
Department of Veterans Affairs	411,624	181,093	210,787	19,744	NA	NA
Other agencies						
Agency for International Development	255,000	18,000	197,000	40,000	NA	NA
Appalachian Regional Commission	985	0	985	0	NA	NA
Broadcasting Board of Governors	218	0	218	0	NA	NA
Environmental Protection Agency	621,538	104,308	400,489	116,741	NA	NA
Federal Communications Commission	7,570	0	7,123	447	NA	NA
Federal Trade Commission	1,606	0	1,606	0	NA	NA
Library of Congress	7,304	0	3,339	3,965	NA	NA
National Aeronautics and Space Administration	7,211,019	1,803,208	1,468,573	3,939,238	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	3,790,586	3,504,011	286,575	0	NA	NA
Nuclear Regulatory Commission	71,385	0	71,385	0	NA	NA
Smithsonian Institution	119,000	119,000	0	0	NA	NA
Social Security Administration	67,842	0	67,842	0	NA	NA

NA = not available; data are not collected in this category for this agency.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2007  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	114,501,509	27,476,511	27,598,082	59,426,916	NA	NA
Departments						
Department of Agriculture	2,266,760	963,843	1,123,769	179,148	NA	NA
Agricultural Marketing Service	6,628	0	6,628	0	NA	NA
Agricultural Research Service	1,069,790	524,197	438,614	106,979	NA	NA
Animal and Plant Health Inspection Service	26,109	0	0	26,109	NA	NA
Cooperative State Research, Education, and Extension Service	743,203	295,059	448,144	0	NA	NA
Economic Research Service	75,193	7,519	67,674	0	NA	NA
Foreign Agricultural Service	864	242	622	0	NA	NA
Forest Service	329,000	134,890	148,050	46,060	NA	NA
Grain Inspection, Packers, and Stockyards Administration	6,676	0	6,676	0	NA	NA
National Agricultural Statistics Service	6,676	1,936	4,740	0	NA	NA
Rural Business-Cooperative Service	2,621	0	2,621	0	NA	NA
Department of Commerce	912,598	96,280	698,119	118,199	NA	NA
Economic Development Administration	1,076	0	1,076	0	NA	NA
National Institute of Standards and Technology	453,188	96,280	313,382	43,526	NA	NA
National Oceanic and Atmospheric Administration	429,412	0	370,729	58,683	NA	NA
National Telecommunications and Information Administration	7,134	0	7,134	0	NA	NA
U.S. Census Bureau	21,788	0	5,798	15,990	NA	NA
Department of Defense	58,444,868	1,520,512	5,335,580	51,588,776	6,406,198	45,182,578
Defense agencies and activities	17,322,355	239,320	2,142,794	14,940,241	3,438,358	11,501,883
Chemical and Biological Defense	526,156	22,421	62,602	441,133	126,064	315,069
Defense Advanced Research Projects Agency	3,606,714	169,888	1,662,900	1,773,926	1,699,069	74,857
Defense Business Transformation Agency	129,933	0	0	129,933	0	129,933
Defense Contract Management Agency	10,438	0	0	10,438	0	10,438
Defense Information Systems Agency	348,992	0	0	348,992	0	348,992
Defense Logistics Agency	227,164	0	0	227,164	180,645	46,519
Defense Security Service	35,305	0	0	35,305	0	35,305
Defense Technical Information Center	48,937	0	0	48,937	0	48,937
Defense Threat Reduction Agency	449,516	8,966	318,534	122,016	117,778	4,238
Joint Staff	68,089	0	0	68,089	0	68,089
Missile Defense Agency	9,381,259	0	0	9,381,259	171,651	9,209,608
Office of the Secretary of Defense <sup>a</sup>	1,829,503	38,045	76,043	1,715,415	993,584	721,831
Special Operations Command	660,349	0	22,715	637,634	149,567	488,067
Department of the Air Force	10,619,294	394,850	1,086,858	9,137,586	704,928	8,432,658
Materiel Command	7,279,560	394,850	1,086,858	5,797,852	704,928	5,092,924
Space Command	3,339,734	0	0	3,339,734	0	3,339,734
Department of the Army	10,914,756	383,241	1,244,829	9,286,686	1,324,093	7,962,593
Department of the Navy	19,407,876	503,101	861,099	18,043,676	938,819	17,104,857
Operational Test and Evaluation, Director	180,587	0	0	180,587	0	180,587
Department of Education	332,951	4,872	201,751	126,328	NA	NA
Department of Energy	8,010,183	3,276,152	2,779,287	1,954,744	NA	NA
Bonneville Power Administration	11,003	40	8,479	2,484	NA	NA
Civilian Radioactive Waste Management	12,360	0	12,360	0	NA	NA
Electricity Delivery and Energy Restoration	94,186	0	65,930	28,256	NA	NA
Energy Efficiency and Renewable Energy	661,618	558	342,343	318,717	NA	NA
Environmental Management	21,389	0	6,417	14,972	NA	NA
Fossil Energy	427,751	7,445	199,456	220,850	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2007  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
National Nuclear Security Administration	3,447,163	11,063	2,076,200	1,359,900	NA	NA
Defense Programs	2,506,507	0	1,950,870	555,637	NA	NA
Naval Reactors	727,611	0	0	727,611	NA	NA
Nonproliferation and Verification	213,045	11,063	125,330	76,652	NA	NA
Nuclear Energy	77,667	0	68,102	9,565	NA	NA
Office of Science	3,257,046	3,257,046	0	0	NA	NA
Department of Health and Human Services	28,752,535	15,533,890	13,186,717	31,928	NA	NA
Administration for Children and Families	14,748	0	14,748	0	NA	NA
Agency for Healthcare Research and Quality	318,692	0	293,196	25,496	NA	NA
Agency for Toxic Substances and Disease Registry	10,861	0	10,861	0	NA	NA
Centers for Disease Control and Prevention	534,222	0	534,222	0	NA	NA
Centers for Medicare and Medicaid Services	57,420	0	57,420	0	NA	NA
Food and Drug Administration	142,586	0	142,586	0	NA	NA
Health Resources and Services Administration	23,705	2,500	14,773	6,432	NA	NA
National Institutes of Health	27,624,900	15,531,390	12,093,510	0	NA	NA
Office of the Secretary	25,401	0	25,401	0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	25,401	0	25,401	0	NA	NA
Department of Homeland Security	998,908	103,486	328,060	567,362	NA	NA
Science and Technology Directorate	974,120	103,486	320,101	550,533	NA	NA
Transportation Security Administration	2,646	0	0	2,646	NA	NA
U.S. Coast Guard	21,262	0	7,079	14,183	NA	NA
U.S. Secret Service	880	0	880	0	NA	NA
Department of Housing and Urban Development	37,385	0	12,750	24,635	NA	NA
Department of the Interior	588,463	41,884	482,696	63,883	NA	NA
Bureau of Reclamation	8,514	0	2,980	5,534	NA	NA
Geological Survey	553,525	41,884	453,292	58,349	NA	NA
Minerals Management Service	26,424	0	26,424	0	NA	NA
Department of Justice	157,608	17,995	31,863	107,750	NA	NA
Bureau of Prisons	11,341	0	2,763	8,578	NA	NA
Federal Bureau of Investigation	70,847	0	0	70,847	NA	NA
Office of Justice Programs	75,420	17,995	29,100	28,325	NA	NA
Department of Labor	215,706	14,300	17,256	184,150	NA	NA
Bureau of Labor Statistics	22,600	14,300	8,300	0	NA	NA
Employee Benefits Security Administration	2,558	0	2,558	0	NA	NA
Employment and Training Administration	184,722	0	2,163	182,559	NA	NA
Occupational Safety and Health Administration	3,724	0	3,724	0	NA	NA
Office of the Secretary	290	0	290	0	NA	NA
Pension Benefit Guaranty Corporation	1,812	0	221	1,591	NA	NA
Department of State	4,338	0	4,338	0	NA	NA
Department of Transportation	824,284	0	553,038	271,246	NA	NA
Federal Aviation Administration	232,656	0	131,297	101,359	NA	NA
Federal Highway Administration	447,287	0	307,400	139,887	NA	NA
Federal Motor Carrier Safety Administration	8,698	0	8,698	0	NA	NA
Federal Railroad Administration	42,882	0	40,046	2,836	NA	NA
Federal Transit Administration	10,385	0	4,025	6,360	NA	NA
National Highway Traffic Safety Administration	57,510	0	57,510	0	NA	NA
Office of the Secretary	4,910	0	0	4,910	NA	NA
Pipeline and Hazardous Materials Safety Administration	14,929	0	2,805	12,124	NA	NA

TABLE 6. Preliminary federal obligations for research and development, by agency and character of work: FY 2007  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Research and Innovative Technology Administration	5,027	0	1,257	3,770	NA	NA
Department of the Treasury	66,311	382	61,474	4,455	NA	NA
Bureau of Engraving and Printing	8,080	382	6,743	955	NA	NA
Internal Revenue Service	54,731	0	54,731	0	NA	NA
U.S. Mint	3,500	0	0	3,500	NA	NA
Department of Veterans Affairs	413,603	181,964	211,800	19,839	NA	NA
Other agencies						
Agency for International Development	255,000	18,000	197,000	40,000	NA	NA
Appalachian Regional Commission	704	0	704	0	NA	NA
Environmental Protection Agency	553,486	93,133	356,257	104,096	NA	NA
Federal Communications Commission	9,904	0	7,734	2,170	NA	NA
Federal Trade Commission	1,684	0	1,684	0	NA	NA
Library of Congress	7,048	0	315	6,733	NA	NA
National Aeronautics and Space Administration	7,292,106	1,809,620	1,451,012	4,031,474	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	4,051,033	3,672,198	378,835	0	NA	NA
Nuclear Regulatory Commission	76,512	0	76,512	0	NA	NA
Smithsonian Institution	128,000	128,000	0	0	NA	NA
Social Security Administration	99,411	0	99,411	0	NA	NA

NA = not available; data are not collected in this category for this agency.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2008  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
All agencies	111,346,018	27,720,659	26,988,023	56,637,336	NA	NA
Departments						
Department of Agriculture	1,980,126	860,384	946,341	173,401	NA	NA
Agricultural Marketing Service	6,801	0	6,801	0	NA	NA
Agricultural Research Service	1,021,517	500,543	418,822	102,152	NA	NA
Animal and Plant Health Inspection Service	31,349	0	0	31,349	NA	NA
Cooperative State Research, Education, and Extension Service	536,199	232,501	303,698	0	NA	NA
Economic Research Service	82,544	8,254	74,290	0	NA	NA
Foreign Agricultural Service	864	242	622	0	NA	NA
Forest Service	285,000	116,850	128,250	39,900	NA	NA
Grain Inspection, Packers, and Stockyards Administration	7,876	0	7,876	0	NA	NA
National Agricultural Statistics Service	6,876	1,994	4,882	0	NA	NA
Rural Business-Cooperative Service	1,100	0	1,100	0	NA	NA
Department of Commerce	931,803	109,370	731,066	91,367	NA	NA
National Institute of Standards and Technology	420,559	109,370	301,917	9,272	NA	NA
National Oceanic and Atmospheric Administration	477,803	0	416,984	60,819	NA	NA
National Telecommunications and Information Administration	7,134	0	7,134	0	NA	NA
U.S. Census Bureau	26,307	0	5,031	21,276	NA	NA
Department of Defense	54,932,111	1,481,238	4,601,823	48,849,050	4,834,164	44,014,886
Defense agencies and activities	16,559,716	287,908	2,091,033	14,180,775	3,376,453	10,804,322
Chemical and Biological Defense	899,519	65,090	260,175	574,254	271,494	302,760
Defense Advanced Research Projects Agency	3,397,446	167,072	1,545,520	1,684,854	1,627,027	57,827
Defense Business Transformation Agency	185,507	0	0	185,507	0	185,507
Defense Contract Management Agency	11,264	0	0	11,264	0	11,264
Defense Information Systems Agency	341,707	0	0	341,707	0	341,707
Defense Logistics Agency	73,921	0	0	73,921	53,807	20,114
Defense Security Service	34,417	0	0	34,417	0	34,417
Defense Technical Information Center	51,793	0	0	51,793	0	51,793
Defense Threat Reduction Agency	420,059	5,496	197,129	217,434	203,579	13,855
Joint Staff	69,925	0	0	69,925	0	69,925
Missile Defense Agency	8,795,834	0	0	8,795,834	141,147	8,654,687
Office of the Secretary of Defense <sup>a</sup>	1,885,933	50,250	64,910	1,770,773	1,039,076	731,697
Special Operations Command	392,391	0	23,299	369,092	40,323	328,769
Department of the Air Force	10,696,406	377,119	1,011,581	9,307,706	533,672	8,774,034
Materiel Command	6,961,735	377,119	1,011,581	5,573,035	533,672	5,039,363
Space Command	3,734,671	0	0	3,734,671	0	3,734,671
Department of the Army	10,309,422	340,696	814,081	9,154,645	807,000	8,347,645
Department of the Navy	17,186,035	475,515	685,128	16,025,392	117,039	15,908,353
Operational Test and Evaluation, Director	180,532	0	0	180,532	0	180,532
Department of Education	337,341	5,050	204,456	127,835	NA	NA
Department of Energy	8,589,802	3,411,214	3,075,484	2,103,104	NA	NA
Bonneville Power Administration	8,896	60	6,660	2,176	NA	NA
Civilian Radioactive Waste Management	28,882	0	28,882	0	NA	NA
Electricity Delivery and Energy Restoration	81,693	0	57,185	24,508	NA	NA
Energy Efficiency and Renewable Energy	641,747	843	366,727	274,177	NA	NA
Environmental Management	21,389	0	6,417	14,972	NA	NA
Fossil Energy	417,700	8,354	208,850	200,496	NA	NA
National Nuclear Security Administration	3,606,384	11,063	2,192,546	1,402,775	NA	NA



TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2008  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Defense Programs	2,655,791	0	2,067,216	588,575	NA	NA
Naval Reactors	737,548	0	0	737,548	NA	NA
Nonproliferation and Verification	213,045	11,063	125,330	76,652	NA	NA
Nuclear Energy	392,217	0	208,217	184,000	NA	NA
Office of Science	3,390,894	3,390,894	0	0	NA	NA
Department of Health and Human Services	28,813,591	15,473,295	13,307,766	32,530	NA	NA
Administration for Children and Families	15,058	0	15,058	0	NA	NA
Agency for Healthcare Research and Quality	329,564	0	303,198	26,366	NA	NA
Agency for Toxic Substances and Disease Registry	6,434	0	6,434	0	NA	NA
Centers for Disease Control and Prevention	534,222	0	534,222	0	NA	NA
Centers for Medicare and Medicaid Services	33,700	0	33,700	0	NA	NA
Food and Drug Administration	137,839	0	137,839	0	NA	NA
Health Resources and Services Administration	23,454	2,500	14,790	6,164	NA	NA
National Institutes of Health	27,707,919	15,470,795	12,237,124	0	NA	NA
Office of the Secretary	25,401	0	25,401	0	NA	NA
Office of the Assistant Secretary, Planning and Evaluation	25,401	0	25,401	0	NA	NA
Department of Homeland Security	738,284	76,358	243,403	418,523	NA	NA
Science and Technology Directorate	718,762	76,358	236,189	406,215	NA	NA
U.S. Coast Guard	18,583	0	6,275	12,308	NA	NA
U.S. Secret Service	939	0	939	0	NA	NA
Department of Housing and Urban Development	40,533	0	13,883	26,650	NA	NA
Department of the Interior	582,133	38,773	482,248	61,112	NA	NA
Bureau of Reclamation	9,003	0	3,151	5,852	NA	NA
Geological Survey	547,125	38,773	453,092	55,260	NA	NA
Minerals Management Service	26,005	0	26,005	0	NA	NA
Department of Justice	101,811	15,445	28,093	58,273	NA	NA
Bureau of Prisons	11,405	0	2,793	8,612	NA	NA
Federal Bureau of Investigation	22,911	0	0	22,911	NA	NA
Office of Justice Programs	67,495	15,445	25,300	26,750	NA	NA
Department of Labor	190,113	14,500	16,615	158,998	NA	NA
Bureau of Labor Statistics	22,800	14,500	8,300	0	NA	NA
Employee Benefits Security Administration	2,577	0	2,577	0	NA	NA
Employment and Training Administration	158,997	0	1,450	157,547	NA	NA
Occupational Safety and Health Administration	3,810	0	3,810	0	NA	NA
Office of the Secretary	250	0	250	0	NA	NA
Pension Benefit Guaranty Corporation	1,679	0	228	1,451	NA	NA
Department of State	4,757	0	4,757	0	NA	NA
Department of Transportation	838,301	0	584,852	253,449	NA	NA
Federal Aviation Administration	238,374	0	140,000	98,374	NA	NA
Federal Highway Administration	458,177	0	332,461	125,716	NA	NA
Federal Motor Carrier Safety Administration	6,577	0	6,577	0	NA	NA
Federal Railroad Administration	32,589	0	27,701	4,888	NA	NA
Federal Transit Administration	12,766	0	3,841	8,925	NA	NA
National Highway Traffic Safety Administration	65,699	0	65,699	0	NA	NA
Office of the Secretary	9,115	0	0	9,115	NA	NA
Pipeline and Hazardous Materials Safety Administration	6,561	0	2,241	4,320	NA	NA
Research and Innovative Technology Administration	8,443	0	6,332	2,111	NA	NA

TABLE 7. Preliminary federal obligations for research and development, by agency and character of work: FY 2008  
(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Development		
				Total	Advanced technology	Major systems
Department of the Treasury	72,888	420	68,418	4,050	NA	NA
Bureau of Engraving and Printing	8,888	420	7,418	1,050	NA	NA
Internal Revenue Service	61,000	0	61,000	0	NA	NA
U.S. Mint	3,000	0	0	3,000	NA	NA
Department of Veterans Affairs	410,625	180,654	210,275	19,696	NA	NA
Other agencies						
Agency for International Development	255,000	18,000	197,000	40,000	NA	NA
Appalachian Regional Commission	705	0	705	0	NA	NA
Environmental Protection Agency	539,822	91,307	346,679	101,836	NA	NA
Federal Communications Commission	6,773	0	6,308	465	NA	NA
Federal Trade Commission	1,974	0	1,974	0	NA	NA
Library of Congress	4,424	0	345	4,079	NA	NA
National Aeronautics and Space Administration	7,307,632	1,831,233	1,363,481	4,112,918	NA	NA
National Archives and Records Administration	120	0	120	0	NA	NA
National Science Foundation	4,357,720	3,977,418	380,302	0	NA	NA
Nuclear Regulatory Commission	70,933	0	70,933	0	NA	NA
Smithsonian Institution	136,000	136,000	0	0	NA	NA
Social Security Administration	100,696	0	100,696	0	NA	NA

NA = not available; data are not collected in this category for this agency.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2006

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	110,145.8	25,563.2	44,152.9	1,421.9	24,336.3	5,439.1	6,000.1	1,816.0	619.6	796.7
Departments										
Department of Agriculture	2,213.7	1,432.5	18.9	0.0	727.4	0.0	25.4	0.0	5.6	4.0
Agricultural Marketing Service	6.3	6.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,134.9	1,011.8	0.0	0.0	110.8	0.0	9.0	0.0	0.3	3.1
Animal and Plant Health Inspection Service	25.5	17.6	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	645.1	38.0	15.8	0.0	579.4	0.0	10.6	0.0	1.4	0.0
Economic Research Service	75.0	66.6	2.2	0.0	4.9	0.0	1.3	0.0	0.0	0.1
Foreign Agricultural Service	0.9	0.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.2
Forest Service	308.1	277.7	0.9	0.0	23.1	0.0	2.0	0.0	3.9	0.5
Grain Inspection, Packers, and Stockyards Administration	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	6.5	6.2	0.0	0.0	0.2	0.0	*	0.0	0.0	0.0
Rural Business-Cooperative Service	4.1	1.1	0.0	0.0	0.6	0.0	2.5	0.0	0.0	0.0
Department of Commerce	941.7	622.4	68.9	0.1	224.2	4.0	13.9	0.4	7.4	0.4
Economic Development Administration	0.2	*	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	385.7	303.7	59.5	0.1	19.5	*	2.2	0.4	0.1	0.3
National Oceanic and Atmospheric Administration	526.9	290.0	9.4	0.0	204.5	4.0	11.7	0.0	7.2	0.2
National Telecommunications and Information Administration	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	22.1	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	54,286.5	13,406.0	36,644.4	176.2	2,095.5	451.4	444.2	617.9	15.2	435.7
Defense agencies and activities	14,303.6	2,809.4	10,016.8	114.9	695.3	255.8	92.2	116.5	0.1	202.8
Chemical and Biological Defense	585.5	358.6	144.3	2.9	40.9	13.2	2.0	6.6	0.0	17.1
Defense Advanced Research Projects Agency	2,386.3	208.7	1,553.9	22.6	402.2	92.1	71.7	16.9	0.0	18.2
Defense Business Transformation Agency	32.2	12.3	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	13.9	1.1	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	272.2	85.8	172.1	4.1	0.4	0.0	0.0	9.9	0.0	*
Defense Logistics Agency	204.1	90.5	93.7	0.0	17.7	0.0	0.7	1.5	0.0	0.1
Defense Security Service	16.6	*	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Center	47.6	40.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	458.2	133.8	275.2	10.2	7.6	20.6	0.9	5.2	0.0	4.8
Joint Staff	82.1	79.9	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0
Missile Defense Agency	7,917.1	1,186.4	6,426.6	47.1	44.6	42.0	4.2	37.4	0.0	128.8
Office of the Secretary of Defense <sup>b</sup>	1,718.6	534.9	821.7	28.0	179.6	68.9	12.7	39.0	0.1	33.8
Special Operations Command	569.3	76.5	473.6	0.0	2.3	17.0	0.0	0.0	0.0	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2006

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of the Air Force	10,103.8	1,522.6	7,784.7	31.3	270.6	106.4	79.9	278.7	3.7	25.9
Materiel Command	6,825.6	1,307.9	5,018.7	3.4	269.5	17.3	79.6	103.4	0.0	25.8
Space Command	3,278.1	214.6	2,766.1	27.8	1.1	89.1	0.4	175.2	3.7	0.1
Department of the Army	11,318.3	3,350.1	7,206.5	13.5	347.8	27.5	124.7	64.8	0.0	183.2
Department of the Navy	18,381.9	5,667.8	11,556.0	16.7	770.0	61.7	147.4	127.1	11.4	23.8
Operational Test and Evaluation, Director	178.9	56.1	80.2	0.0	11.8	0.0	0.0	30.8	0.0	0.0
Department of Education	337.0	13.8	16.8	0.0	232.6	0.0	73.5	0.0	0.3	0.0
Department of Energy	7,562.0	530.3	1,130.6	881.8	857.7	3,011.0	165.5	976.4	5.9	2.9
Bonneville Power Administration	10.7	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Civilian Radioactive Waste Management	52.9	6.8	0.0	21.9	0.0	22.3	0.0	1.9	0.0	0.0
Electricity Delivery and Energy Restoration	133.5	4.2	43.0	23.9	15.2	7.3	2.5	35.3	2.0	0.0
Energy Efficiency and Renewable Energy	430.6	168.3	0.0	29.2	44.3	39.8	12.2	136.9	0.0	0.0
Environmental Management	34.0	*	0.0	0.4	33.4	*	0.0	0.2	0.0	0.0
Fossil Energy	435.7	122.7	147.9	5.5	59.4	21.1	48.6	25.6	3.9	0.9
National Nuclear Security Administration	3,557.3	196.5	872.0	704.3	74.3	1,639.7	27.1	43.4	0.0	0.0
Defense Programs	2,593.6	184.8	213.9	575.9	68.0	1,524.4	26.6	0.0	0.0	0.0
Naval Reactors	720.4	*	647.9	71.5	0.0	0.4	0.5	0.1	0.0	0.0
Nonproliferation and Verification	243.3	11.7	10.2	56.9	6.4	114.9	0.0	43.3	0.0	0.0
Nuclear Energy	89.0	*	4.6	47.1	6.9	13.4	0.0	16.9	0.0	0.0
Office of Science	2,818.3	21.1	62.9	49.4	624.3	1,267.3	75.0	716.2	0.0	2.0
Department of Health and Human Services	28,765.6	5,722.7	1,887.5	294.5	15,794.2	72.9	4,417.8	40.6	209.5	326.0
Administration for Children and Families	14.4	0.3	0.0	0.0	12.2	0.0	1.7	0.0	0.3	0.0
Administration on Aging	2.9	0.1	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
Agency for Healthcare Research and Quality	318.7	75.4	98.9	0.0	72.1	0.0	66.1	0.0	3.7	2.4
Agency for Toxic Substances and Disease Registry	9.0	4.7	0.6	0.0	2.1	0.0	1.0	0.0	0.6	0.0
Centers for Disease Control and Prevention	544.6	196.5	5.4	0.0	173.6	0.0	104.0	0.0	43.1	22.1
Centers for Medicare and Medicaid Services	62.4	*	30.6	0.0	3.4	0.0	7.9	0.0	20.4	0.0
Food and Drug Administration	143.3	114.1	3.9	0.0	14.5	0.0	10.3	0.0	0.2	0.3
Health Resources and Services Administration	23.6	3.3	0.0	0.0	11.6	0.0	7.7	0.0	1.0	0.0
National Institutes of Health	27,565.6	5,321.6	1,737.2	294.5	15,489.3	72.9	4,200.8	40.6	107.6	301.1
Office of the Secretary	26.8	6.8	9.7	0.0	3.9	0.0	6.5	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	26.8	6.8	9.7	0.0	3.9	0.0	6.5	0.0	0.0	0.0
Substance Abuse and Mental Health Services Administration	54.3	*	1.2	0.0	11.5	0.0	8.9	0.0	32.6	0.0
Department of Homeland Security	1,725.4	595.9	553.1	51.8	24.2	273.5	50.3	146.0	30.6	0.0
Science and Technology Directorate	1,691.6	581.6	536.2	50.8	23.9	273.3	49.1	146.0	30.6	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2006

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Transportation Security Administration	11.7	*	10.5	1.0	0.0	0.2	0.0	0.0	0.0	0.0
U.S. Coast Guard	21.2	13.4	6.4	0.0	0.3	0.0	1.2	0.0	0.0	0.0
U.S. Secret Service	1.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	33.5	21.2	8.9	0.0	0.6	0.0	2.9	0.0	0.0	0.0
Department of the Interior	603.0	510.8	12.1	0.0	52.4	0.4	5.5	0.0	21.6	0.2
Bureau of Reclamation	8.8	2.8	2.2	0.0	0.7	0.0	3.0	0.0	0.1	0.0
Geological Survey	561.5	496.1	3.5	0.0	40.8	0.0	0.0	0.0	21.0	0.0
Minerals Management Service	28.9	10.7	6.3	0.0	8.7	0.4	2.2	0.0	0.4	0.2
National Park Service <sup>c</sup>	3.8	1.2	0.2	0.0	2.2	0.0	0.3	0.0	0.0	0.0
Department of Justice	127.9	53.6	10.6	0.1	22.4	0.0	21.1	2.4	17.8	0.0
Bureau of Prisons	12.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0
Federal Bureau of Investigation	34.3	34.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	81.5	17.2	10.6	0.1	22.4	0.0	21.1	2.4	7.7	0.0
Department of Labor	95.3	17.8	6.0	0.0	59.5	0.0	9.6	0.0	2.3	0.0
Bureau of Labor Statistics	22.8	9.5	0.4	0.0	12.7	0.0	0.2	0.0	0.0	0.0
Employee Benefits Security Administration	2.6	1.0	0.8	0.0	0.0	0.0	0.9	0.0	0.0	0.0
Employment and Training Administration	64.1	3.1	3.5	0.0	46.8	0.0	8.4	0.0	2.3	0.0
Occupational Safety and Health Administration	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.3	0.3	*	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	1.9	0.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	4.2	0.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	819.2	248.4	388.8	3.1	54.6	7.4	96.5	3.3	16.7	0.3
Federal Aviation Administration	260.0	71.8	158.0	3.1	20.0	7.1	0.0	0.0	0.0	0.0
Federal Highway Administration	400.1	106.2	186.7	0.0	9.3	0.3	81.3	3.3	12.9	0.0
Federal Motor Carrier Safety Administration	5.3	3.4	1.2	0.0	0.7	0.0	*	0.0	0.0	0.0
Federal Railroad Administration	47.2	18.3	25.1	0.0	3.5	0.0	0.0	0.0	0.0	0.3
Federal Transit Administration	16.6	1.1	1.9	0.0	8.4	0.0	3.7	0.0	1.4	0.0
National Highway Traffic Safety Administration	57.5	36.8	12.4	0.0	7.5	0.0	0.0	0.0	0.8	0.0
Office of the Secretary	14.8	6.7	0.0	0.0	5.1	0.0	1.4	0.0	1.6	0.0
Pipeline and Hazardous Materials Safety Administration	15.2	1.9	3.5	0.0	0.0	0.0	9.8	0.0	0.0	*
Research and Innovative Technology Administration	2.5	2.1	0.0	0.0	*	0.0	0.3	0.0	0.0	0.0
Department of the Treasury	65.1	56.4	8.3	0.0	*	0.0	*	0.3	0.0	0.0
Bureau of Engraving and Printing	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	55.4	49.0	6.0	0.0	*	0.0	*	0.3	0.0	0.0
U.S. Mint	3.7	1.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 8. Federal obligations for research and development, by agency and performer: FY 2006

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of Veterans Affairs	411.6	411.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	255.0	31.4	11.4	0.0	29.3	0.0	182.9	0.0	0.0	0.0
Appalachian Regional Commission	1.0	0.1	0.6	0.0	0.1	0.0	0.2	0.0	0.0	0.0
Broadcasting Board of Governors	0.2	*	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	621.5	495.6	22.2	0.0	64.6	0.0	29.8	0.0	7.0	2.3
Federal Communications Commission	7.6	7.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,211.0	1,201.1	3,163.4	0.2	975.3	1,384.0	206.3	6.5	264.4	9.8
National Archives and Records Administration	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	3,790.6	33.9	142.7	0.0	3,111.5	224.7	248.9	6.5	9.3	13.2
Nuclear Regulatory Commission	71.4	17.9	7.3	14.1	3.8	9.8	1.0	15.8	0.0	1.7
Smithsonian Institution	119.0	119.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	67.8	3.6	46.8	0.0	6.5	0.0	4.8	0.0	6.0	0.1

\* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.<sup>c</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2007

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	114,501.5	25,550.8	44,304.6	4,655.3	25,008.3	5,655.8	6,063.8	2,048.0	555.7	659.3
Departments										
Department of Agriculture	2,266.8	1,414.8	17.5	0.0	809.1	0.0	16.7	0.0	5.5	3.2
Agricultural Marketing Service	6.6	6.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,069.8	959.7	0.0	0.0	100.8	0.0	6.7	0.0	0.2	2.4
Animal and Plant Health Inspection Service	26.1	24.5	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	743.2	42.4	15.6	0.0	677.8	0.0	6.1	0.0	1.4	0.0
Economic Research Service	75.2	68.8	1.0	0.0	4.5	0.0	0.9	0.0	0.0	0.1
Foreign Agricultural Service	0.9	0.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.2
Forest Service	329.0	298.5	0.9	0.0	23.1	0.0	2.0	0.0	4.0	0.5
Grain Inspection, Packers, and Stockyards Administration	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	6.7	6.4	0.0	0.0	0.2	0.0	*	0.0	0.0	0.0
Rural Business-Cooperative Service	2.6	1.1	0.0	0.0	0.6	0.0	0.9	0.0	0.0	0.0
Department of Commerce	912.6	682.3	82.9	0.1	137.5	2.8	4.3	0.4	1.9	0.4
Economic Development Administration	1.1	*	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	453.2	342.6	79.7	0.1	27.3	*	2.7	0.4	0.1	0.3
National Oceanic and Atmospheric Administration	429.4	310.8	3.2	0.0	109.1	2.8	1.6	0.0	1.7	0.2
National Telecommunications and Information Administration	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	21.8	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	58,444.9	13,694.2	36,748.6	3,491.4	2,483.3	469.0	564.9	665.8	24.8	302.8
Defense agencies and activities	17,322.4	3,305.1	12,190.2	120.2	914.9	287.1	127.7	146.0	0.1	231.1
Chemical and Biological Defense	526.2	331.3	166.4	4.5	7.8	2.3	1.7	1.7	0.0	10.4
Defense Advanced Research Projects Agency	3,606.7	292.7	2,341.9	37.4	630.9	139.2	110.3	26.2	0.0	28.1
Defense Business Transformation Agency	129.9	66.2	63.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	10.4	0.5	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	349.0	95.1	232.9	4.4	0.4	0.0	0.0	16.2	0.0	0.0
Defense Logistics Agency	227.2	103.3	94.1	0.0	27.0	0.0	1.2	1.5	0.0	0.0
Defense Security Service	35.3	*	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Center	48.9	42.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	449.5	94.4	316.2	13.8	8.3	15.0	0.4	0.3	0.0	1.2
Joint Staff	68.1	68.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	9,381.3	1,385.7	7,636.3	39.4	52.0	48.4	5.8	49.7	0.0	164.1
Office of the Secretary of Defense <sup>c</sup>	1,829.5	739.5	738.3	20.7	185.7	59.2	8.2	50.4	0.1	27.3
Special Operations Command	660.3	86.2	548.3	0.0	2.8	23.1	0.0	0.0	0.0	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2007

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							Foreign
			Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Department of the Air Force	10,619.3	1,657.5	8,046.7	72.8	301.4	105.3	100.1	312.6	4.1	18.6
Materiel Command	7,279.6	1,451.2	5,301.0	1.7	300.3	9.6	97.8	99.3	0.0	18.6
Space Command	3,339.7	206.3	2,745.7	71.1	1.1	95.7	2.3	213.3	4.1	0.0
Department of the Army	10,914.8	2,865.5	3,988.5	3,276.0	472.6	26.0	213.5	49.3	0.4	22.9
Department of the Navy	19,407.9	5,809.4	12,442.3	22.3	782.5	50.6	123.6	126.8	20.2	30.2
Operational Test and Evaluation, Director	180.6	56.7	80.9	0.0	11.9	0.0	0.0	31.1	0.0	0.0
Department of Education	333.0	14.0	18.4	0.0	226.7	0.0	73.7	0.0	0.2	0.0
Department of Energy	8,010.2	575.4	1,208.8	804.9	814.3	3,317.4	88.0	1,197.0	2.4	2.1
Bonneville Power Administration	11.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Civilian Radioactive Waste Management	12.4	*	0.0	0.9	0.0	11.5	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Restoration	94.2	*	33.3	11.4	5.3	7.4	0.0	36.8	0.0	0.0
Energy Efficiency and Renewable Energy	661.6	258.5	0.0	45.9	68.0	61.1	18.8	209.3	0.0	0.0
Environmental Management	21.4	*	0.0	0.2	21.0	0.1	0.0	0.1	0.0	0.0
Fossil Energy	427.8	124.0	173.3	5.2	48.9	18.7	32.9	21.7	2.4	0.8
National Nuclear Security Administration	3,447.2	121.7	851.4	657.4	44.2	1,708.5	17.4	46.7	0.0	0.0
Defense Programs	2,506.5	110.5	182.9	540.9	44.2	1,612.3	15.7	0.0	0.0	0.0
Naval Reactors	727.6	*	661.0	64.4	0.0	0.5	1.7	0.1	0.0	0.0
Nonproliferation and Verification	213.0	11.2	7.5	52.0	0.0	95.7	0.0	46.6	0.0	0.0
Nuclear Energy	77.7	*	3.6	27.8	5.9	30.9	0.0	9.5	0.0	0.0
Office of Science	3,257.0	60.2	147.3	56.1	621.2	1,479.1	19.0	873.0	0.0	1.3
Department of Health and Human Services	28,752.5	5,727.2	1,892.1	295.1	15,813.8	73.1	4,412.7	40.7	171.4	326.4
Administration for Children and Families	14.7	0.3	0.0	0.0	12.5	0.0	1.7	0.0	0.3	0.0
Agency for Healthcare Research and Quality	318.7	75.4	98.9	0.0	72.1	0.0	66.1	0.0	3.7	2.4
Agency for Toxic Substances and Disease Registry	10.9	2.6	2.2	0.0	3.2	0.0	0.5	0.0	2.2	0.2
Centers for Disease Control and Prevention	534.2	192.8	5.3	0.0	170.3	0.0	102.0	0.0	42.2	21.7
Centers for Medicare and Medicaid Services	57.4	*	31.7	0.0	3.5	0.0	8.2	0.0	14.0	0.0
Food and Drug Administration	142.6	113.4	3.8	0.0	14.5	0.0	10.3	0.0	0.2	0.4
Health Resources and Services Administration	23.7	3.2	0.0	0.0	11.6	0.0	7.9	0.0	0.9	0.0
National Institutes of Health	27,624.9	5,333.0	1,741.0	295.1	15,522.6	73.1	4,209.8	40.7	107.9	301.8
Office of the Secretary	25.4	6.4	9.2	0.0	3.6	0.0	6.2	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	25.4	6.4	9.2	0.0	3.6	0.0	6.2	0.0	0.0	0.0
Department of Homeland Security	998.9	196.3	343.0	46.8	82.3	155.8	62.2	110.8	1.7	0.1
Science and Technology Directorate	974.1	182.4	333.5	46.8	82.1	155.8	61.1	110.8	1.7	0.1
Transportation Security Administration	2.6	*	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	21.3	13.0	6.8	0.0	0.3	0.0	1.2	0.0	0.0	0.0
U.S. Secret Service	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2007

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of Housing and Urban Development	37.4	23.5	10.1	0.0	0.6	0.0	3.2	0.0	0.0	0.0
Department of the Interior	588.5	499.7	14.8	0.0	47.5	0.0	3.6	0.0	22.0	0.9
Bureau of Reclamation	8.5	2.7	2.1	0.0	0.7	0.0	2.9	0.0	0.1	0.0
Geological Survey	553.5	487.4	5.8	0.0	39.3	0.0	0.0	0.0	21.0	0.0
Minerals Management Service	26.4	9.5	6.9	0.0	7.5	0.0	0.7	0.0	0.9	0.9
Department of Justice	157.6	88.2	9.1	0.1	20.5	0.0	20.5	2.3	17.0	0.0
Bureau of Prisons	11.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0
Federal Bureau of Investigation	70.8	70.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	75.4	15.2	9.1	0.1	20.5	0.0	20.5	2.3	7.8	0.0
Department of Labor	215.7	23.0	12.7	0.0	144.8	0.0	28.7	0.0	6.4	0.0
Bureau of Labor Statistics	22.6	8.7	0.4	0.0	10.1	0.0	3.4	0.0	0.0	0.0
Employee Benefits Security Administration	2.6	1.0	0.9	0.0	0.0	0.0	0.7	0.0	0.0	0.0
Employment and Training Administration	184.7	8.9	10.2	0.0	134.7	0.0	24.6	0.0	6.4	0.0
Occupational Safety and Health Administration	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.3	0.3	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	1.8	0.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	4.3	0.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	824.3	264.6	409.9	2.9	43.2	1.5	96.2	0.4	5.3	0.4
Federal Aviation Administration	232.7	75.7	136.0	2.7	17.0	1.3	0.0	0.0	0.0	0.0
Federal Highway Administration	447.3	118.8	230.5	0.0	10.7	0.3	82.4	0.4	4.3	0.0
Federal Motor Carrier Safety Administration	8.7	2.1	3.9	0.0	0.6	0.0	1.6	0.0	0.5	0.0
Federal Railroad Administration	42.9	19.5	22.6	0.0	0.5	0.0	0.0	0.0	0.0	0.3
Federal Transit Administration	10.4	0.7	0.1	0.0	6.1	0.0	3.0	0.0	0.5	0.0
National Highway Traffic Safety Administration	57.5	36.8	12.4	0.0	8.3	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	14.9	1.8	4.1	0.0	0.0	0.0	8.9	0.0	0.0	0.1
Research and Innovative Technology Administration	5.0	4.3	0.2	0.2	0.0	0.0	0.3	0.0	0.0	0.0
Department of the Treasury	66.3	57.9	8.1	0.0	0.2	0.0	*	0.2	0.0	0.0
Bureau of Engraving and Printing	8.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	54.7	48.8	5.6	0.0	0.2	0.0	*	0.2	0.0	0.0
U.S. Mint	3.5	1.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	413.6	413.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	255.0	31.4	11.4	0.0	29.3	0.0	182.9	0.0	0.0	0.0
Appalachian Regional Commission	0.7	0.1	0.3	0.0	0.2	0.0	0.2	0.0	0.0	0.0

TABLE 9. Preliminary federal obligations for research and development, by agency and performer: FY 2007

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Environmental Protection Agency	553.5	441.3	19.8	0.0	57.5	0.0	26.6	0.0	6.3	2.0
Federal Communications Commission	9.9	9.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,292.1	1,195.8	3,243.8	0.2	972.0	1,390.7	209.5	6.7	269.3	4.1
National Archives and Records Administration	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	4,051.0	35.8	169.3	0.0	3,314.0	235.5	264.4	8.1	9.7	14.3
Nuclear Regulatory Commission	76.5	19.7	11.7	13.9	2.4	10.0	0.5	15.8	0.0	2.6
Smithsonian Institution	128.0	128.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	99.4	5.1	68.3	0.0	9.1	0.0	5.0	0.0	11.9	0.0

\* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.<sup>b</sup> In FY 2007 Department of the Army misreported approximately \$3.2 billion of major systems development obligations to industry FFRDCs; these obligations should have been reported to industry. Reporting of actual FY 2007 data in the forthcoming Volume 57 (FY 2007–09) of the Federal Funds series of detailed statistical tables will correct this error.<sup>c</sup> In FY 2006 Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2008

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	111,346.0	25,047.8	45,059.3	1,654.9	24,588.2	5,746.9	5,897.7	2,150.2	528.4	672.7
Departments										
Department of Agriculture	1,980.1	1,397.9	14.4	0.0	543.4	0.0	15.9	0.0	5.5	3.1
Agricultural Marketing Service	6.8	6.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	1,021.5	979.0	0.0	0.0	33.3	0.0	6.7	0.0	0.2	2.4
Animal and Plant Health Inspection Service	31.3	28.8	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	536.2	39.0	12.5	0.0	477.2	0.0	6.1	0.0	1.4	0.0
Economic Research Service	82.5	74.0	1.0	0.0	6.5	0.0	0.9	0.0	0.0	0.1
Foreign Agricultural Service	0.9	0.2	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.2
Forest Service	285.0	254.6	0.9	0.0	23.1	0.0	2.0	0.0	4.0	0.4
Grain Inspection, Packers, and Stockyards Administration	7.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	6.9	6.6	0.0	0.0	0.2	0.0	*	0.0	0.0	0.0
Rural Business-Cooperative Service	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Commerce	931.8	729.1	23.9	0.1	168.7	2.8	4.2	0.4	2.1	0.4
National Institute of Standards and Technology	420.6	365.9	20.7	0.1	30.4	*	2.7	0.4	0.1	0.3
National Oceanic and Atmospheric Administration	477.8	329.7	3.2	0.0	138.4	2.8	1.5	0.0	2.0	0.2
National Telecommunications and Information Administration	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	26.3	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Defense	54,932.1	13,086.1	37,532.2	443.3	2,047.4	406.4	382.1	714.9	4.4	315.5
Defense agencies and activities	16,559.7	3,403.4	11,401.7	120.8	859.5	267.1	120.7	154.9	0.1	231.5
Chemical and Biological Defense	899.5	620.9	168.9	16.3	70.3	0.1	8.5	0.5	0.0	14.1
Defense Advanced Research Projects Agency	3,397.4	288.4	2,191.7	35.6	595.4	132.1	103.0	24.8	0.0	26.4
Defense Business Transformation Agency	185.5	79.4	106.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Contract Management Agency	11.3	0.6	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Information Systems Agency	341.7	93.9	224.5	6.2	0.0	0.0	0.0	17.1	0.0	0.0
Defense Logistics Agency	73.9	53.5	18.4	0.0	1.3	0.0	0.7	0.0	0.0	0.0
Defense Security Service	34.4	*	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Technical Information Center	51.8	47.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Defense Threat Reduction Agency	420.1	101.3	291.7	9.3	6.3	10.0	0.5	0.2	0.0	0.8
Joint Staff	69.9	69.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missile Defense Agency	8,795.8	1,142.2	7,333.0	41.3	17.2	36.0	1.2	57.5	0.0	167.5
Office of the Secretary of Defense <sup>b</sup>	1,885.9	853.7	695.5	12.2	167.1	73.0	6.8	54.9	0.1	22.7
Special Operations Command	392.4	52.7	321.9	0.0	1.9	15.9	0.0	0.0	0.0	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2008

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of the Air Force	10,696.4	1,586.9	8,254.6	38.2	276.4	75.1	106.5	340.3	4.3	14.1
Materiel Command	6,961.7	1,336.4	5,154.0	1.5	273.6	8.2	91.5	82.5	0.0	14.1
Space Command	3,734.7	250.5	3,100.6	36.8	2.7	66.9	15.0	257.8	4.3	0.0
Department of the Army	10,309.4	2,712.8	6,996.6	172.1	253.0	24.7	60.5	45.2	0.0	44.4
Department of the Navy	17,186.0	5,326.3	10,798.5	112.1	646.6	39.4	94.4	143.4	0.0	25.4
Operational Test and Evaluation, Director	180.5	56.7	80.9	0.0	11.9	0.0	0.0	31.1	0.0	0.0
Department of Education	337.3	16.4	17.6	0.0	227.9	0.0	75.4	0.0	0.0	0.0
Department of Energy	8,589.8	743.7	1,320.7	868.0	809.6	3,473.0	91.3	1,279.7	2.0	1.7
Bonneville Power Administration	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Civilian Radioactive Waste Management	28.9	*	0.0	3.6	0.0	25.3	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Restoration	81.7	*	28.9	9.9	4.6	6.4	0.0	31.9	0.0	0.0
Energy Efficiency and Renewable Energy	641.7	250.7	0.0	46.7	65.9	59.3	18.2	200.9	0.0	0.0
Environmental Management	21.4	*	0.0	0.2	21.0	0.1	0.0	0.1	0.0	0.0
Fossil Energy	417.7	122.7	169.3	5.2	46.9	18.9	31.0	21.0	2.0	0.8
National Nuclear Security Administration	3,606.4	288.6	867.2	625.9	53.0	1,706.5	18.5	46.7	0.0	0.0
Defense Programs	2,655.8	277.3	185.2	513.1	53.0	1,610.3	16.9	0.0	0.0	0.0
Naval Reactors	737.5	*	674.6	60.8	0.0	0.5	1.6	0.1	0.0	0.0
Nonproliferation and Verification	213.0	11.2	7.5	52.0	0.0	95.7	0.0	46.6	0.0	0.0
Nuclear Energy	392.2	*	100.0	123.5	6.0	114.4	0.0	48.3	0.0	0.0
Office of Science	3,390.9	72.8	155.3	53.2	612.1	1,542.1	23.7	930.8	0.0	0.9
Department of Health and Human Services	28,813.6	5,744.2	1,884.7	296.0	15,859.6	73.3	4,423.1	40.8	164.7	327.2
Administration for Children and Families	15.1	0.3	0.0	0.0	12.7	0.0	1.7	0.0	0.3	0.0
Agency for Healthcare Research and Quality	329.6	78.0	102.3	0.0	74.6	0.0	68.4	0.0	3.8	2.5
Agency for Toxic Substances and Disease Registry	6.4	4.8	0.0	0.0	1.5	0.0	0.0	0.0	0.2	0.0
Centers for Disease Control and Prevention	534.2	192.8	5.3	0.0	170.3	0.0	102.0	0.0	42.2	21.7
Centers for Medicare and Medicaid Services	33.7	*	18.0	0.0	2.0	0.0	4.7	0.0	9.0	0.0
Food and Drug Administration	137.8	109.7	3.7	0.0	14.0	0.0	9.9	0.0	0.2	0.3
Health Resources and Services Administration	23.5	3.2	0.0	0.0	11.6	0.0	7.8	0.0	0.9	0.0
National Institutes of Health	27,707.9	5,349.0	1,746.2	296.0	15,569.3	73.3	4,222.4	40.8	108.2	302.7
Office of the Secretary	25.4	6.4	9.2	0.0	3.6	0.0	6.2	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	25.4	6.4	9.2	0.0	3.6	0.0	6.2	0.0	0.0	0.0
Department of Homeland Security	738.3	148.8	250.0	34.5	60.8	115.0	46.2	81.8	1.2	*
Science and Technology Directorate	718.8	134.6	246.1	34.5	60.6	115.0	45.0	81.8	1.2	*
U.S. Coast Guard	18.6	13.3	3.9	0.0	0.2	0.0	1.2	0.0	0.0	0.0
U.S. Secret Service	0.9	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	40.5	25.5	10.9	0.0	0.7	0.0	3.5	0.0	0.0	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2008

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of the Interior	582.1	501.0	13.0	0.0	42.1	0.0	3.3	0.0	21.9	0.9
Bureau of Reclamation	9.0	2.9	2.3	0.0	0.7	0.0	3.1	0.0	0.1	0.0
Geological Survey	547.1	487.6	5.4	0.0	33.1	0.0	0.0	0.0	21.0	0.0
Minerals Management Service	26.0	10.5	5.3	0.0	8.3	0.0	0.2	0.0	0.8	0.9
Department of Justice	101.8	39.5	9.4	0.1	17.7	0.0	16.9	2.3	16.0	0.0
Bureau of Prisons	11.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0
Federal Bureau of Investigation	22.9	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	67.5	14.4	9.4	0.1	17.7	0.0	16.9	2.3	6.8	0.0
Department of Labor	190.1	22.1	10.1	0.0	116.6	0.0	35.2	0.0	6.0	0.0
Bureau of Labor Statistics	22.8	8.9	0.4	0.0	0.0	0.0	13.5	0.0	0.0	0.0
Employee Benefits Security Administration	2.6	1.0	0.9	0.0	0.0	0.0	0.7	0.0	0.0	0.0
Employment and Training Administration	159.0	7.6	7.8	0.0	116.6	0.0	21.0	0.0	6.0	0.0
Occupational Safety and Health Administration	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	1.7	0.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of State	4.8	0.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	838.3	286.8	382.4	1.6	61.3	1.6	94.3	0.4	9.5	0.4
Federal Aviation Administration	238.4	80.3	131.6	1.4	23.8	1.3	0.0	0.0	0.0	0.0
Federal Highway Administration	458.2	122.4	223.3	0.0	14.2	0.3	88.0	0.4	9.5	0.0
Federal Motor Carrier Safety Administration	6.6	2.3	2.9	0.0	0.7	0.0	0.7	0.0	0.0	0.0
Federal Railroad Administration	32.6	20.2	11.5	0.0	0.6	0.0	0.0	0.0	0.0	0.3
Federal Transit Administration	12.8	1.0	0.4	0.0	8.3	0.0	3.2	0.0	0.0	0.0
National Highway Traffic Safety Administration	65.7	42.0	9.9	0.0	13.8	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	9.1	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pipeline and Hazardous Materials Safety Administration	6.6	1.8	2.7	0.0	0.0	0.0	2.0	0.0	0.0	0.1
Research and Innovative Technology Administration	8.4	7.6	0.2	0.2	0.0	0.0	0.4	0.0	0.0	0.0
Department of the Treasury	72.9	64.8	7.8	0.0	0.0	0.0	*	0.3	0.0	0.0
Bureau of Engraving and Printing	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Internal Revenue Service	61.0	54.9	5.8	0.0	0.0	0.0	*	0.3	0.0	0.0
U.S. Mint	3.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	410.6	410.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other agencies										
Agency for International Development	255.0	31.4	11.4	0.0	29.3	0.0	182.9	0.0	0.0	0.0
Appalachian Regional Commission	0.7	0.1	0.3	0.0	0.0	0.2	0.2	0.0	0.0	0.0

TABLE 10. Preliminary federal obligations for research and development, by agency and performer: FY 2008

(Dollars in millions)

Agency	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Environmental Protection Agency	539.8	430.4	19.3	0.0	56.1	0.0	25.9	0.0	6.1	2.0
Federal Communications Commission	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Trade Commission	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	7,307.6	1,159.4	3,281.7	0.2	968.0	1,408.9	206.0	7.0	272.4	4.2
National Archives and Records Administration	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Science Foundation	4,357.7	38.6	175.8	0.0	3,569.1	255.1	285.1	8.3	10.5	15.3
Nuclear Regulatory Commission	70.9	18.3	12.0	11.1	1.7	10.7	0.6	14.5	0.0	2.0
Smithsonian Institution	136.0	136.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Social Security Administration	100.7	3.1	77.6	0.0	8.5	0.0	5.7	0.0	5.8	0.0

\* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2006  
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
All agencies	8,677,009	1,421,890	5,439,115	1,816,004	803,631	82,697	519,296	201,638
Departments								
Department of Commerce	4,486	74	4,042	370	0	0	0	0
National Institute of Standards and Technology	473	74	29	370	0	0	0	0
National Oceanic and Atmospheric Administration	4,013	0	4,013	0	0	0	0	0
Department of Defense	1,245,525	176,238	451,414	617,873	1,533	0	120	1,413
Defense agencies and activities	487,142	114,854	255,784	116,504	0	0	0	0
Chemical and Biological Defense	22,643	2,853	13,182	6,608	0	0	0	0
Defense Advanced Research Projects Agency	131,580	22,581	92,064	16,935	0	0	0	0
Defense Information Systems Agency	13,988	4,050	0	9,938	0	0	0	0
Defense Logistics Agency	1,495	0	0	1,495	0	0	0	0
Defense Threat Reduction Agency	36,001	10,245	20,565	5,191	0	0	0	0
Joint Staff	2,137	0	2,137	0	0	0	0	0
Missile Defense Agency	126,488	47,111	41,994	37,383	0	0	0	0
Office of the Secretary of Defense <sup>a</sup>	135,819	28,014	68,851	38,954	0	0	0	0
Special Operations Command	16,991	0	16,991	0	0	0	0	0
Department of the Air Force	416,348	31,258	106,437	278,653	150	0	120	30
Materiel Command	124,182	3,438	17,318	103,426	150	0	120	30
Space Command	292,166	27,820	89,119	175,227	0	0	0	0
Department of the Army	105,767	13,454	27,470	64,843	0	0	0	0
Department of the Navy	205,470	16,672	61,723	127,075	1,383	0	0	1,383
Operational Test and Evaluation, Director	30,798	0	0	30,798	0	0	0	0
Department of Energy	4,869,157	881,807	3,010,967	976,383	681,109	78,750	413,478	188,881
Civilian Radioactive Waste Management	46,151	21,903	22,328	1,920	0	0	0	0
Electricity Delivery and Energy Restoration	66,553	23,926	7,302	35,325	0	0	0	0
Energy Efficiency and Renewable Energy	205,893	29,205	39,793	136,895	26,052	760	1,946	23,346
Environmental Management	603	439	12	152	0	0	0	0
Fossil Energy	52,246	5,506	21,136	25,604	0	0	0	0
National Nuclear Security Administration	2,387,353	704,299	1,639,674	43,380	234,022	72,451	161,571	0
Defense Programs	2,100,311	575,925	1,524,386	0	233,022	71,451	161,571	0
Naval Reactors	72,010	71,496	430	84	1,000	1,000	0	0
Nonproliferation and Verification	215,032	56,878	114,858	43,296	0	0	0	0
Nuclear Energy	77,385	47,123	13,393	16,869	0	0	0	0
Office of Science	2,032,973	49,406	1,267,329	716,238	421,035	5,539	249,961	165,535
Department of Health and Human Services	407,995	294,454	72,918	40,623	0	0	0	0
National Institutes of Health	407,995	294,454	72,918	40,623	0	0	0	0
Department of Homeland Security	471,271	51,792	273,515	145,964	36,527	3,947	21,238	11,342
Science and Technology Directorate	470,081	50,792	273,325	145,964	36,527	3,947	21,238	11,342

TABLE 11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2006  
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
Transportation Security Administration	1,190	1,000	190	0	0	0	0	0
Department of the Interior	357	0	357	0	0	0	0	0
Minerals Management Service	357	0	357	0	0	0	0	0
Department of Justice	2,410	59	0	2,351	0	0	0	0
Office of Justice Programs	2,410	59	0	2,351	0	0	0	0
Department of Transportation	13,862	3,136	7,406	3,320	0	0	0	0
Federal Aviation Administration	10,220	3,136	7,084	0	0	0	0	0
Federal Highway Administration	3,642	0	322	3,320	0	0	0	0
Department of the Treasury	337	0	0	337	0	0	0	0
Internal Revenue Service	337	0	0	337	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,390,752	199	1,384,007	6,546	27,042	0	27,042	0
National Science Foundation	231,155	0	224,695	6,460	57,420	0	57,418	2
Nuclear Regulatory Commission	39,702	14,131	9,794	15,777	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2007  
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC <sup>a</sup>	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
All agencies	12,359,151	4,655,279	5,655,833	2,048,039	902,326	22,932	572,127	307,267
Departments								
Department of Commerce	3,286	74	2,842	370	0	0	0	0
National Institute of Standards and Technology	473	74	29	370	0	0	0	0
National Oceanic and Atmospheric Administration	2,813	0	2,813	0	0	0	0	0
Department of Defense	4,626,209	3,491,427	469,000	665,782	0	0	0	0
Defense agencies and activities	553,338	120,226	287,102	146,010	0	0	0	0
Chemical and Biological Defense	8,547	4,509	2,300	1,738	0	0	0	0
Defense Advanced Research Projects Agency	202,842	37,448	139,220	26,174	0	0	0	0
Defense Information Systems Agency	20,568	4,411	0	16,157	0	0	0	0
Defense Logistics Agency	1,539	0	0	1,539	0	0	0	0
Defense Threat Reduction Agency	29,021	13,757	14,956	308	0	0	0	0
Missile Defense Agency	137,451	39,411	48,378	49,662	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	130,300	20,690	59,178	50,432	0	0	0	0
Special Operations Command	23,070	0	23,070	0	0	0	0	0
Department of the Air Force	490,748	72,830	105,323	312,595	0	0	0	0
Materiel Command	110,577	1,702	9,610	99,265	0	0	0	0
Space Command	380,171	71,128	95,713	213,330	0	0	0	0
Department of the Army	3,351,348	3,276,023	25,979	49,346	0	0	0	0
Department of the Navy	199,718	22,348	50,596	126,774	0	0	0	0
Operational Test and Evaluation, Director	31,057	0	0	31,057	0	0	0	0
Department of Energy	5,319,199	804,854	3,317,381	1,196,964	806,991	17,706	494,404	294,881
Civilian Radioactive Waste Management	12,359	899	11,460	0	0	0	0	0
Electricity Delivery and Energy Restoration	55,561	11,387	7,418	36,756	0	0	0	0
Energy Efficiency and Renewable Energy	316,321	45,884	61,136	209,301	107,035	1,167	2,990	102,878
Environmental Management	428	213	87	128	0	0	0	0
Fossil Energy	45,610	5,210	18,743	21,657	0	0	0	0
National Nuclear Security Administration	2,412,536	657,374	1,708,489	46,673	157,118	9,984	147,134	0
Defense Programs	2,153,244	540,928	1,612,316	0	157,118	9,984	147,134	0
Naval Reactors	64,943	64,402	455	86	0	0	0	0
Nonproliferation and Verification	194,349	52,044	95,718	46,587	0	0	0	0
Nuclear Energy	68,200	27,779	30,925	9,496	0	0	0	0
Office of Science	2,408,184	56,108	1,479,123	872,953	542,838	6,555	344,280	192,003
Department of Health and Human Services	408,873	295,088	73,075	40,710	0	0	0	0
National Institutes of Health	408,873	295,088	73,075	40,710	0	0	0	0
Department of Homeland Security	313,380	46,753	155,834	110,793	35,028	5,226	17,418	12,384
Science and Technology Directorate	313,380	46,753	155,834	110,793	35,028	5,226	17,418	12,384

TABLE 12. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2007  
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC <sup>a</sup>	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
Department of Justice	2,325	75	0	2,250	0	0	0	0
Office of Justice Programs	2,325	75	0	2,250	0	0	0	0
Department of Transportation	4,757	2,881	1,522	354	0	0	0	0
Federal Aviation Administration	3,931	2,681	1,250	0	0	0	0	0
Federal Highway Administration	626	0	272	354	0	0	0	0
Research and Innovative Technology Administration	200	200	0	0	0	0	0	0
Department of the Treasury	200	0	0	200	0	0	0	0
Internal Revenue Service	200	0	0	200	0	0	0	0
Other agencies								
National Aeronautics and Space Administration	1,397,696	215	1,390,743	6,738	0	0	0	0
National Science Foundation	243,585	0	235,480	8,105	60,307	0	60,305	2
Nuclear Regulatory Commission	39,641	13,912	9,956	15,773	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> In FY 2007 Department of the Army misreported approximately \$3.2 billion of major systems development obligations to industry FFRDCs; these obligations should have been reported to industry. Reporting of actual FY 2007 data in the forthcoming Volume 57 (FY 2007–09) of the Federal Funds series of detailed statistical tables will correct this error.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2008  
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
All agencies	9,551,943	1,654,865	5,746,897	2,150,181	836,799	59,678	413,993	363,128
Departments								
Department of Commerce	3,287	74	2,842	371	0	0	0	0
National Institute of Standards and Technology	474	74	29	371	0	0	0	0
National Oceanic and Atmospheric Administration	2,813	0	2,813	0	0	0	0	0
Department of Defense	1,564,558	443,251	406,365	714,942	0	0	0	0
Defense agencies and activities	542,829	120,824	267,057	154,948	0	0	0	0
Chemical and Biological Defense	16,879	16,319	60	500	0	0	0	0
Defense Advanced Research Projects Agency	192,430	35,575	132,059	24,796	0	0	0	0
Defense Information Systems Agency	23,286	6,215	0	17,071	0	0	0	0
Defense Threat Reduction Agency	19,441	9,266	9,984	191	0	0	0	0
Missile Defense Agency	134,798	41,287	36,025	57,486	0	0	0	0
Office of the Secretary of Defense <sup>a</sup>	140,059	12,162	72,993	54,904	0	0	0	0
Special Operations Command	15,936	0	15,936	0	0	0	0	0
Department of the Air Force	453,682	38,242	75,132	340,308	0	0	0	0
Materiel Command	92,205	1,489	8,248	82,468	0	0	0	0
Space Command	361,477	36,753	66,884	257,840	0	0	0	0
Department of the Army	242,096	172,122	24,741	45,233	0	0	0	0
Department of the Navy	294,896	112,063	39,435	143,398	0	0	0	0
Operational Test and Evaluation, Director	31,055	0	0	31,055	0	0	0	0
Department of Energy	5,620,747	867,996	3,473,035	1,279,716	747,275	55,822	337,462	353,991
Civilian Radioactive Waste Management	28,881	3,597	25,284	0	0	0	0	0
Electricity Delivery and Energy Restoration	48,191	9,877	6,434	31,880	0	0	0	0
Energy Efficiency and Renewable Energy	306,821	46,671	59,300	200,850	6,982	339	869	5,774
Environmental Management	428	213	87	128	0	0	0	0
Fossil Energy	45,095	5,160	18,940	20,995	0	0	0	0
National Nuclear Security Administration	2,379,084	625,866	1,706,542	46,676	60,639	18,828	41,811	0
Defense Programs	2,123,361	513,055	1,610,306	0	60,639	18,828	41,811	0
Naval Reactors	61,374	60,767	518	89	0	0	0	0
Nonproliferation and Verification	194,349	52,044	95,718	46,587	0	0	0	0
Nuclear Energy	286,175	123,452	114,375	48,348	30,000	30,000	0	0
Office of Science	2,526,072	53,160	1,542,073	930,839	649,654	6,655	294,782	348,217
Department of Health and Human Services	410,101	295,974	73,294	40,833	0	0	0	0
National Institutes of Health	410,101	295,974	73,294	40,833	0	0	0	0
Department of Homeland Security	231,230	34,497	114,983	81,750	25,845	3,856	12,852	9,137
Science and Technology Directorate	231,230	34,497	114,983	81,750	25,845	3,856	12,852	9,137
Department of Justice	2,325	75	0	2,250	0	0	0	0

TABLE 13. Preliminary federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: FY 2008  
(Dollars in thousands)

Agency	Research and development				R&D plant			
	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC	Total	Industry FFRDC	University FFRDC	Nonprofit FFRDC
Office of Justice Programs	2,325	75	0	2,250	0	0	0	0
Department of Transportation	3,584	1,640	1,581	363	0	0	0	0
Federal Aviation Administration	2,690	1,430	1,260	0	0	0	0	0
Federal Highway Administration	684	0	321	363	0	0	0	0
Research and Innovative Technology Administration	210	210	0	0	0	0	0	0
Department of the Treasury	250	0	0	250	0	0	0	0
Internal Revenue Service	250	0	0	250	0	0	0	0
Other agencies								
Appalachian Regional Commission	200	0	200	0	0	0	0	0
National Aeronautics and Space Administration	1,416,075	227	1,408,894	6,954	0	0	0	0
National Science Foundation	263,319	0	255,052	8,267	63,679	0	63,679	0
Nuclear Regulatory Commission	36,267	11,131	10,651	14,485	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 14. Federal obligations for research and development to federally funded research and development centers, by FFRDC and agency: FY 2006  
(Dollars in thousands)

FFRDC	Total	DHS	DOC	DOD	DOE	HHS	NASA	NSF	Other
All FFRDCs	8,677,009	471,271	4,486	1,245,525	4,869,157	407,995	1,390,752	231,155	56,668
Administered by industrial firms	1,421,890	51,792	74	176,238	881,807	294,454	199	0	17,326
Idaho National Engineering and Environmental Laboratory	157,942	4,037	0	9,998	141,095	0	0	0	2,812
National Cancer Institute at Frederick	306,973	0	0	13,511	0	293,263	199	0	0
Sandia National Laboratories	941,187	46,170	74	152,510	726,787	1,191	0	0	14,455
Savannah River Technology Center	15,788	1,585	0	219	13,925	0	0	0	59
Administered by universities and colleges <sup>a</sup>	5,439,115	273,515	4,042	451,414	3,010,967	72,918	1,384,007	224,695	17,557
Ames Laboratory	22,606	0	0	267	21,341	0	0	0	998
Argonne National Laboratory	291,357	8,249	29	4,871	256,463	12,209	0	227	9,309
Ernest Orlando Lawrence Berkeley National Laboratory	356,016	2,329	0	2,383	309,108	41,843	0	353	0
Fermi National Accelerator Laboratory	290,541	0	0	0	290,541	0	0	0	0
Jet Propulsion Laboratory	1,396,107	0	0	12,393	0	340	1,383,374	0	0
Lawrence Livermore National Laboratory	1,052,623	189,259	0	45,175	810,519	7,148	522	0	0
Lincoln Laboratory	318,670	622	0	314,414	0	0	0	0	3,634
Los Alamos National Laboratory	1,054,616	34,545	0	23,413	985,229	10,587	0	0	842
National Astronomy and Ionosphere Center	12,140	0	0	0	0	0	0	12,140	0
National Center for Atmospheric Research	106,960	0	2,813	4,439	0	0	111	97,205	2,392
National Optical Astronomy Observatories	63,584	0	0	0	0	0	0	63,584	0
National Radio Astronomy Observatory	51,136	0	0	0	0	0	0	51,136	0
Oak Ridge Institute for Science & Education	54,445	38,511	0	3,798	11,764	0	0	50	322
Princeton Plasma Physics Laboratory	52,843	0	0	141	52,642	0	0	0	60
Software Engineering Institute	27,443	0	0	27,443	0	0	0	0	0
Stanford Linear Accelerator Center	203,706	0	1,200	491	201,224	791	0	0	0
Thomas Jefferson National Accelerator Facility	84,322	0	0	12,186	72,136	0	0	0	0
Administered by nonprofit institutions <sup>b</sup>	1,816,004	145,964	370	617,873	976,383	40,623	6,546	6,460	21,785
Aerospace FFRDC	183,057	0	0	180,401	0	0	0	554	2,102
Arroyo Center	26,096	0	0	25,847	0	0	0	0	249
Brookhaven National Laboratory	277,249	1,053	370	3,689	257,427	7,736	3,005	0	3,969
C3I FFRDC	233,947	0	0	233,601	0	0	0	346	0
Center for Advanced Aviation System Development	3,666	0	0	3,666	0	0	0	0	0
Center for Naval Analyses	69,933	0	0	69,933	0	0	0	0	0
Center for Nuclear Waste Regulatory Analyses	148	0	0	0	0	148	0	0	0
Institute for Defense Analyses									
Communications and Computing FFRDC	4,889	0	0	4,889	0	0	0	0	0
Institute for Defense Analyses Studies and Analyses FFRDC	65,277	0	0	61,906	0	0	0	3,371	0
Internal Revenue Service FFRDC	337	0	0	0	0	0	0	0	337
National Defense Research Institute	9,861	0	0	7,672	0	0	0	2,189	0
National Renewable Energy Laboratory	86,925	0	0	50	86,875	0	0	0	0
Oak Ridge National Laboratory	593,691	84,453	0	21,697	476,298	1,569	30	0	9,644
Pacific Northwest National Laboratory	260,303	60,458	0	3,897	155,783	31,170	3,511	0	5,484
Project Air Force	275	0	0	275	0	0	0	0	0
Science and Technology Policy Institute, The	350	0	0	350	0	0	0	0	0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; FFRDC = federally funded research and development center; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

<sup>a</sup> Includes university consortia.

<sup>b</sup> Other than universities and colleges.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 15. Federal obligations for R&D plant to federally funded research and development centers, by FFRDC and agency: FY 2006

(Dollars in thousands)

FFRDC	Total	DHS	DOD	DOE	NASA	NSF
All FFRDCs	803,631	36,527	1,533	681,109	27,042	57,420
Administered by industrial firms	82,697	3,947	0	78,750	0	0
Idaho National Engineering and Environmental Laboratory	1,350	236	0	1,114	0	0
Sandia National Laboratories	81,224	3,588	0	77,636	0	0
Savannah River Technology Center	123	123	0	0	0	0
Administered by universities and colleges <sup>a</sup>	519,296	21,238	120	413,478	27,042	57,418
Ames Laboratory	2,729	0	0	2,729	0	0
Argonne National Laboratory	31,339	641	0	30,698	0	0
Ernest Orlando Lawrence Berkeley National Laboratory	44,799	181	0	44,618	0	0
Fermi National Accelerator Laboratory	36,557	0	0	36,557	0	0
Jet Propulsion Laboratory	27,042	0	0	0	27,042	0
Lawrence Livermore National Laboratory	159,128	14,706	0	144,422	0	0
Lincoln Laboratory	48	48	0	0	0	0
Los Alamos National Laboratory	25,078	2,669	0	22,409	0	0
National Center for Atmospheric Research	8,812	0	0	0	0	8,812
National Radio Astronomy Observatory	48,606	0	0	0	0	48,606
Oak Ridge Institute for Science & Education	4,155	2,993	120	1,042	0	0
Princeton Plasma Physics Laboratory	20,458	0	0	20,458	0	0
Stanford Linear Accelerator Center	102,922	0	0	102,922	0	0
Thomas Jefferson National Accelerator Facility	7,623	0	0	7,623	0	0
Administered by nonprofit institutions <sup>b</sup>	201,638	11,342	1,413	188,881	0	2
Brookhaven National Laboratory	59,163	82	0	59,081	0	0
C3I FFRDC	1,323	0	1,323	0	0	0
National Defense Research Institute	92	0	90	0	0	2
National Renewable Energy Laboratory	18,910	0	0	18,910	0	0
Oak Ridge National Laboratory	101,986	6,562	0	95,424	0	0
Pacific Northwest National Laboratory	20,164	4,698	0	15,466	0	0

DHS = Department of Homeland Security; DOD = Department of Defense; DOE = Department of Energy; FFRDC = federally funded research and development center; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation.

<sup>a</sup> Includes university consortia.

<sup>b</sup> Other than universities and colleges.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 16. Federal obligations for research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	53,535,650	12,261,584	6,436,283	947,897	22,809,412	3,783,006	5,448,892	1,028,590	417,870	402,116
Departments										
Department of Agriculture	2,030,538	1,269,648	18,855	0	708,328	0	24,493	0	5,556	3,658
Agricultural Marketing Service	6,337	6,164	0	0	173	0	0	0	0	0
Agricultural Research Service	1,021,446	910,624	0	0	99,698	0	8,064	0	227	2,833
Cooperative State Research, Education, and Extension Service	645,095	37,997	15,765	0	579,350	0	10,588	0	1,395	0
Economic Research Service	75,004	66,555	2,212	0	4,865	0	1,292	0	0	80
Foreign Agricultural Service	864	214	0	0	345	0	65	0	0	240
Forest Service	264,020	233,642	878	0	23,087	0	1,974	0	3,934	505
Grain Inspection, Packers, and Stockyards Administration	7,112	7,112	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	6,515	6,240	0	0	240	0	35	0	0	0
Rural Business-Cooperative Service	4,145	1,100	0	0	570	0	2,475	0	0	0
Department of Commerce	840,174	563,608	45,054	74	209,523	2,422	11,811	370	7,054	258
Economic Development Administration	233	11	0	0	222	0	0	0	0	0
National Institute of Standards and Technology	355,454	296,343	36,951	74	19,428	29	1,854	370	147	258
National Oceanic and Atmospheric Administration	471,805	254,572	8,103	0	189,873	2,393	9,957	0	6,907	0
National Telecommunications and Information Administration	6,680	6,680	0	0	0	0	0	0	0	0
U.S. Census Bureau	6,002	6,002	0	0	0	0	0	0	0	0
Department of Defense	5,751,934	1,720,654	2,291,819	17,009	1,329,660	91,051	207,586	47,380	0	46,775
Defense agencies and activities	1,740,641	236,253	906,907	15,905	409,800	75,450	64,736	12,643	0	18,947
Chemical and Biological Defense	97,642	71,067	5,461	1,187	19,000	0	0	0	0	927
Defense Advanced Research Projects Agency	1,185,347	70,780	672,273	7,066	316,810	32,726	63,151	7,821	0	14,720
Defense Threat Reduction Agency	331,703	82,839	206,197	7,652	7,398	18,775	720	4,822	0	3,300
Office of the Secretary of Defense <sup>b</sup>	100,216	8,110	700	0	66,592	23,949	865	0	0	0
Special Operations Command	25,733	3,457	22,276	0	0	0	0	0	0	0
Department of the Air Force	1,351,095	548,125	462,899	614	243,736	3,679	76,753	600	0	14,689
Materiel Command	1,351,095	548,125	462,899	614	243,736	3,679	76,753	600	0	14,689
Department of the Army	1,452,598	538,023	568,767	390	273,208	1,638	35,845	31,414	0	3,313
Department of the Navy	1,207,600	398,253	353,246	100	402,916	10,284	30,252	2,723	0	9,826
Department of Education	215,562	8,536	7,325	0	157,230	0	42,311	0	160	0
Department of Energy	5,720,253	331,504	328,920	600,169	806,069	2,678,244	113,133	858,786	1,406	2,022
Bonneville Power Administration	9,755	9,755	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	52,922	6,771	0	21,903	0	22,328	0	1,920	0	0
Electricity Delivery and Energy Restoration	93,449	2,955	30,127	16,748	10,608	5,111	1,767	24,727	1,406	0

TABLE 16. Federal obligations for research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Energy Efficiency and Renewable Energy	211,328	82,573	0	20,970	21,714	19,528	6,005	60,538	0	0
Environmental Management	10,192	1	0	131	10,011	3	0	46	0	0
Fossil Energy	218,132	35,036	96,847	5,506	59,386	5,411	8,754	7,192	0	0
National Nuclear Security Administration	2,218,715	173,355	134,370	438,382	73,106	1,345,141	21,618	32,743	0	0
Defense Programs	2,076,191	163,518	125,971	408,787	67,980	1,288,317	21,618	0	0	0
Nonproliferation and Verification	142,524	9,837	8,399	29,595	5,126	56,824	0	32,743	0	0
Nuclear Energy	87,472	1	4,642	47,123	6,931	13,393	0	15,382	0	0
Office of Science	2,818,288	21,057	62,934	49,406	624,313	1,267,329	74,989	716,238	0	2,022
Department of Health and Human Services	28,679,592	5,697,181	1,886,310	294,454	15,782,417	72,918	4,403,823	40,623	175,890	325,976
Administration for Children and Families	14,445	275	0	0	12,211	0	1,659	0	300	0
Administration on Aging	2,931	73	0	0	0	0	2,858	0	0	0
Agency for Healthcare Research and Quality	293,180	49,946	98,896	0	72,097	0	66,140	0	3,659	2,442
Agency for Toxic Substances and Disease Registry	8,966	4,709	551	0	2,122	0	996	0	588	0
Centers for Disease Control and Prevention	544,583	196,497	5,390	0	173,597	0	103,971	0	43,053	22,075
Centers for Medicare and Medicaid Services	62,394	20	30,630	0	3,393	0	7,930	0	20,421	0
Food and Drug Administration	143,349	114,081	3,867	0	14,504	0	10,311	0	241	345
Health Resources and Services Administration	17,342	3,273	0	0	11,364	0	2,705	0	0	0
National Institutes of Health	27,565,559	5,321,557	1,737,236	294,454	15,489,276	72,918	4,200,753	40,623	107,628	301,114
Office of the Secretary	26,843	6,750	9,740	0	3,853	0	6,500	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	26,843	6,750	9,740	0	3,853	0	6,500	0	0	0
Department of Homeland Security	606,183	210,166	193,215	18,684	8,424	96,234	17,294	51,391	10,775	0
Science and Technology Directorate	595,574	204,787	188,785	17,884	8,424	96,234	17,294	51,391	10,775	0
Transportation Security Administration	2,576	1	1,775	800	0	0	0	0	0	0
U.S. Coast Guard	7,065	4,460	2,605	0	0	0	0	0	0	0
U.S. Secret Service	968	918	50	0	0	0	0	0	0	0
Department of Housing and Urban Development	11,502	7,866	1,714	0	552	0	1,370	0	0	0
Department of the Interior	551,072	470,805	9,369	0	49,691	357	3,553	0	17,058	239
Bureau of Reclamation	3,085	982	774	0	246	0	1,046	0	37	0
Geological Survey	515,464	458,053	2,167	0	38,638	0	0	0	16,606	0
Minerals Management Service	28,869	10,652	6,251	0	8,732	357	2,223	0	415	239
National Park Service <sup>c</sup>	3,654	1,118	177	0	2,075	0	284	0	0	0
Department of Justice	52,972	7,844	8,158	59	19,583	0	15,310	249	1,769	0
Bureau of Prisons	2,744	986	0	0	0	0	0	0	1,758	0
Office of Justice Programs	50,228	6,858	8,158	59	19,583	0	15,310	249	11	0
Department of Labor	30,136	14,470	1,239	0	13,181	0	1,221	0	25	0
Bureau of Labor Statistics	22,800	9,500	400	0	12,700	0	200	0	0	0



TABLE 16. Federal obligations for research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Employee Benefits Security Administration	2,622	973	799	0	0	0	850	0	0	0
Employment and Training Administration	660	32	36	0	481	0	86	0	25	0
Occupational Safety and Health Administration	3,500	3,500	0	0	0	0	0	0	0	0
Office of the Secretary	339	250	4	0	0	0	85	0	0	0
Pension Benefit Guaranty Corporation	215	215	0	0	0	0	0	0	0	0
Department of State	4,161	719	3,442	0	0	0	0	0	0	0
Department of Transportation	535,191	189,047	224,804	3,136	41,008	7,309	56,823	2,551	10,231	282
Federal Aviation Administration	136,620	58,152	48,222	3,136	20,026	7,084	0	0	0	0
Federal Highway Administration	288,397	71,634	141,161	0	8,390	225	54,978	2,551	9,458	0
Federal Motor Carrier Safety Administration	5,313	3,365	1,211	0	700	0	37	0	0	0
Federal Railroad Administration	40,823	17,668	19,560	0	3,313	0	0	0	0	282
Federal Transit Administration	3,559	234	500	0	1,092	0	1,733	0	0	0
National Highway Traffic Safety Administration	57,510	36,806	12,444	0	7,487	0	0	0	773	0
Pipeline and Hazardous Materials Safety Administration	2,225	519	1,706	0	0	0	0	0	0	0
Research and Innovative Technology Administration	744	669	0	0	0	0	75	0	0	0
Department of the Treasury	60,718	54,327	6,026	0	20	0	8	337	0	0
Bureau of Engraving and Printing	5,330	5,330	0	0	0	0	0	0	0	0
Internal Revenue Service	55,388	48,997	6,026	0	20	0	8	337	0	0
Department of Veterans Affairs	391,880	391,880	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	215,000	27,405	11,021	0	24,264	0	152,310	0	0	0
Appalachian Regional Commission	985	54	581	0	110	0	240	0	0	0
Broadcasting Board of Governors	218	33	185	0	0	0	0	0	0	0
Environmental Protection Agency	504,797	402,494	18,051	0	52,471	0	24,236	0	5,710	1,835
Federal Communications Commission	7,123	6,968	155	0	0	0	0	0	0	0
Federal Trade Commission	1,606	1,606	0	0	0	0	0	0	0	0
Library of Congress	3,339	3,339	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	3,271,781	706,885	1,183,279	181	485,137	599,982	118,687	4,666	166,955	6,009
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0

TABLE 16. Federal obligations for research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
National Science Foundation	3,790,586	33,851	142,659	0	3,111,481	224,695	248,947	6,460	9,259	13,234
Nuclear Regulatory Commission	71,385	17,931	7,337	14,131	3,766	9,794	962	15,777	0	1,687
Smithsonian Institution	119,000	119,000	0	0	0	0	0	0	0	0
Social Security Administration	67,842	3,643	46,765	0	6,497	0	4,774	0	6,022	141

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>c</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	55,074,593	12,343,487	6,981,938	895,928	23,297,235	4,052,368	5,506,994	1,190,034	398,329	408,280
Departments										
Department of Agriculture	2,087,612	1,248,250	17,478	0	797,415	0	16,030	0	5,519	2,920
Agricultural Marketing Service	6,628	6,455	0	0	173	0	0	0	0	0
Agricultural Research Service	962,811	863,744	0	0	90,724	0	6,048	0	170	2,125
Cooperative State Research, Education, and Extension Service	743,203	42,397	15,600	0	677,761	0	6,050	0	1,395	0
Economic Research Service	75,193	68,787	1,000	0	4,500	0	856	0	0	50
Foreign Agricultural Service	864	214	0	0	345	0	65	0	0	240
Forest Service	282,940	252,476	878	0	23,087	0	2,040	0	3,954	505
Grain Inspection, Packers, and Stockyards Administration	6,676	6,676	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	6,676	6,401	0	0	240	0	35	0	0	0
Rural Business-Cooperative Service	2,621	1,100	0	0	585	0	936	0	0	0
Department of Commerce	794,399	605,615	52,919	74	128,669	1,222	3,662	370	1,610	258
Economic Development Administration	1,076	12	0	0	1,064	0	0	0	0	0
National Institute of Standards and Technology	409,662	328,590	50,933	74	26,963	29	2,298	370	147	258
National Oceanic and Atmospheric Administration	370,729	264,081	1,986	0	100,642	1,193	1,364	0	1,463	0
National Telecommunications and Information Administration	7,134	7,134	0	0	0	0	0	0	0	0
U.S. Census Bureau	5,798	5,798	0	0	0	0	0	0	0	0
Department of Defense	6,856,092	1,948,173	2,759,869	29,430	1,609,359	103,226	309,246	41,701	0	55,088
Defense agencies and activities	2,382,114	248,303	1,298,595	26,731	582,921	86,400	98,526	12,411	0	28,227
Chemical and Biological Defense	85,023	64,560	9,959	1,216	5,048	0	0	0	0	4,240
Defense Advanced Research Projects Agency	1,832,788	109,461	1,030,964	12,465	498,977	48,641	97,419	12,103	0	22,758
Defense Threat Reduction Agency	327,500	55,782	235,509	13,050	7,211	14,300	111	308	0	1,229
Office of the Secretary of Defense <sup>b</sup>	114,088	15,448	2,500	0	71,685	23,459	996	0	0	0
Special Operations Command	22,715	3,052	19,663	0	0	0	0	0	0	0
Department of the Air Force	1,481,708	647,257	474,780	559	256,105	3,380	84,250	571	0	14,806
Materiel Command	1,481,708	647,257	474,780	559	256,105	3,380	84,250	571	0	14,806
Department of the Army	1,628,070	598,860	588,276	2,027	317,889	1,850	92,480	25,657	0	1,031
Department of the Navy	1,364,200	453,753	398,218	113	452,444	11,596	33,990	3,062	0	11,024
Department of Education	206,623	8,294	6,873	0	149,994	0	41,462	0	0	0
Department of Energy	6,055,439	340,444	375,772	534,143	766,896	2,956,415	50,827	1,029,655	0	1,287
Bonneville Power Administration	8,519	8,519	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	12,360	1	0	899	0	11,460	0	0	0	0
Electricity Delivery and Energy Restoration	65,930	1	33,279	11,387	5,344	7,418	0	8,501	0	0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Energy Efficiency and Renewable Energy	342,901	133,981	0	33,917	35,233	31,687	9,743	98,340	0	0
Environmental Management	6,417	1	0	64	6,288	26	0	38	0	0
Fossil Energy	206,901	33,980	103,202	5,210	48,867	3,018	6,402	6,222	0	0
National Nuclear Security Administration	2,087,263	103,809	91,965	398,779	44,150	1,392,758	15,698	40,104	0	0
Defense Programs	1,950,870	93,093	86,485	370,111	44,150	1,341,333	15,698	0	0	0
Nonproliferation and Verification	136,393	10,716	5,480	28,668	0	51,425	0	40,104	0	0
Nuclear Energy	68,102	1	40	27,779	5,860	30,925	0	3,497	0	0
Office of Science	3,257,046	60,151	147,286	56,108	621,154	1,479,123	18,984	872,953	0	1,287
Department of Health and Human Services	28,720,607	5,701,723	1,892,099	295,088	15,813,550	73,075	4,407,490	40,710	170,496	326,376
Administration for Children and Families	14,748	281	0	0	12,467	0	1,694	0	306	0
Agency for Healthcare Research and Quality	293,196	49,949	98,901	0	72,101	0	66,144	0	3,659	2,442
Agency for Toxic Substances and Disease Registry	10,861	2,612	2,191	0	3,158	0	520	0	2,210	170
Centers for Disease Control and Prevention	534,222	192,808	5,287	0	170,270	0	101,978	0	42,227	21,652
Centers for Medicare and Medicaid Services	57,420	20	31,682	0	3,472	0	8,246	0	14,000	0
Food and Drug Administration	142,586	113,449	3,846	0	14,452	0	10,256	0	233	350
Health Resources and Services Administration	17,273	3,204	0	0	11,364	0	2,705	0	0	0
National Institutes of Health	27,624,900	5,333,012	1,740,976	295,088	15,522,620	73,075	4,209,796	40,710	107,861	301,762
Office of the Secretary	25,401	6,388	9,216	0	3,646	0	6,151	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,401	6,388	9,216	0	3,646	0	6,151	0	0	0
Department of Homeland Security	431,546	84,511	147,764	20,330	35,697	67,763	26,548	48,177	729	27
Science and Technology Directorate	423,587	79,306	145,010	20,330	35,697	67,763	26,548	48,177	729	27
U.S. Coast Guard	7,079	4,325	2,754	0	0	0	0	0	0	0
U.S. Secret Service	880	880	0	0	0	0	0	0	0	0
Department of Housing and Urban Development	12,750	8,720	1,900	0	612	0	1,518	0	0	0
Department of the Interior	524,580	448,751	11,141	0	44,518	0	1,751	0	17,521	898
Bureau of Reclamation	2,980	954	745	0	238	0	1,013	0	30	0
Geological Survey	495,176	438,261	3,535	0	36,774	0	0	0	16,606	0
Minerals Management Service	26,424	9,536	6,861	0	7,506	0	738	0	885	898
Department of Justice	49,858	7,723	7,300	75	18,250	0	14,500	250	1,760	0
Bureau of Prisons	2,763	1,013	0	0	0	0	0	0	1,750	0
Office of Justice Programs	47,095	6,710	7,300	75	18,250	0	14,500	250	10	0
Department of Labor	31,556	13,956	1,433	0	11,675	0	4,411	0	81	0
Bureau of Labor Statistics	22,600	8,700	400	0	10,100	0	3,400	0	0	0
Employee Benefits Security Administration	2,558	958	875	0	0	0	725	0	0	0
Employment and Training Administration	2,163	103	118	0	1,575	0	286	0	81	0
Occupational Safety and Health Administration	3,724	3,724	0	0	0	0	0	0	0	0

TABLE 17. Preliminary federal obligations for research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Office of the Secretary	290	250	40	0	0	0	0	0	0	0
Pension Benefit Guaranty Corporation	221	221	0	0	0	0	0	0	0	0
Department of State	4,338	738	3,600	0	0	0	0	0	0	0
Department of Transportation	553,038	207,708	233,488	2,681	38,200	1,440	65,447	248	3,526	300
Federal Aviation Administration	131,297	67,203	43,155	2,681	17,008	1,250	0	0	0	0
Federal Highway Administration	307,400	80,527	151,522	0	9,860	190	62,059	248	2,994	0
Federal Motor Carrier Safety Administration	8,698	2,115	3,908	0	580	0	1,563	0	532	0
Federal Railroad Administration	40,046	19,081	20,173	0	492	0	0	0	0	300
Federal Transit Administration	4,025	275	0	0	2,000	0	1,750	0	0	0
National Highway Traffic Safety Administration	57,510	36,806	12,444	0	8,260	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	2,805	519	2,286	0	0	0	0	0	0	0
Research and Innovative Technology Administration	1,257	1,182	0	0	0	0	75	0	0	0
Department of the Treasury	61,856	55,935	5,562	0	150	0	9	200	0	0
Bureau of Engraving and Printing	7,125	7,125	0	0	0	0	0	0	0	0
Internal Revenue Service	54,731	48,810	5,562	0	150	0	9	200	0	0
Department of Veterans Affairs	393,764	393,764	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	215,000	27,405	11,021	0	24,264	0	152,310	0	0	0
Appalachian Regional Commission	704	54	250	0	200	0	200	0	0	0
Environmental Protection Agency	449,390	358,299	16,072	0	46,724	0	21,580	0	5,084	1,631
Federal Communications Commission	7,734	7,232	502	0	0	0	0	0	0	0
Federal Trade Commission	1,684	1,684	0	0	0	0	0	0	0	0
Library of Congress	315	315	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	3,260,632	685,525	1,187,663	195	485,545	603,791	120,092	4,845	170,368	2,608
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	4,051,033	35,752	169,275	0	3,313,968	235,480	264,421	8,105	9,703	14,329
Nuclear Regulatory Commission	76,512	19,713	11,654	13,912	2,446	9,956	500	15,773	0	2,558
Smithsonian Institution	128,000	128,000	0	0	0	0	0	0	0	0
Social Security Administration	99,411	5,083	68,303	0	9,103	0	4,990	0	11,932	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2008  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	54,708,682	12,544,300	6,400,086	945,125	23,169,109	4,157,510	5,453,495	1,241,487	392,429	405,141
Departments										
Department of Agriculture	1,806,725	1,231,219	14,423	0	537,523	0	15,186	0	5,519	2,855
Agricultural Marketing Service	6,801	6,628	0	0	173	0	0	0	0	0
Agricultural Research Service	919,365	881,083	0	0	29,939	0	6,048	0	170	2,125
Cooperative State Research, Education, and Extension Service	536,199	38,969	12,545	0	477,239	0	6,051	0	1,395	0
Economic Research Service	82,544	74,047	1,000	0	6,500	0	947	0	0	50
Foreign Agricultural Service	864	214	0	0	345	0	65	0	0	240
Forest Service	245,100	214,701	878	0	23,087	0	2,040	0	3,954	440
Grain Inspection, Packers, and Stockyards Administration	7,876	7,876	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	6,876	6,601	0	0	240	0	35	0	0	0
Rural Business-Cooperative Service	1,100	1,100	0	0	0	0	0	0	0	0
Department of Commerce	840,436	648,171	21,603	74	163,201	1,222	3,748	371	1,787	259
National Institute of Standards and Technology	411,287	358,128	19,842	74	29,850	29	2,586	371	148	259
National Oceanic and Atmospheric Administration	416,984	277,878	1,761	0	133,351	1,193	1,162	0	1,639	0
National Telecommunications and Information Administration	7,134	7,134	0	0	0	0	0	0	0	0
U.S. Census Bureau	5,031	5,031	0	0	0	0	0	0	0	0
Department of Defense	6,083,061	1,962,865	2,266,085	30,290	1,424,606	91,473	222,136	34,461	0	51,145
Defense agencies and activities	2,378,941	423,080	1,138,776	29,304	581,792	77,629	91,623	11,513	0	25,224
Chemical and Biological Defense	325,265	264,617	6,202	9,609	41,635	0	0	0	0	3,202
Defense Advanced Research Projects Agency	1,712,592	102,310	960,858	11,651	469,143	45,321	90,724	11,322	0	21,263
Defense Threat Reduction Agency	202,625	34,522	145,748	8,044	4,443	8,849	69	191	0	759
Office of the Secretary of Defense <sup>b</sup>	115,160	18,500	5,800	0	66,571	23,459	830	0	0	0
Special Operations Command	23,299	3,131	20,168	0	0	0	0	0	0	0
Department of the Air Force	1,388,700	609,248	430,563	601	253,557	3,240	76,816	563	0	14,112
Materiel Command	1,388,700	609,248	430,563	601	253,557	3,240	76,816	563	0	14,112
Department of the Army	1,154,777	543,422	370,784	295	193,311	1,277	24,042	19,762	0	1,884
Department of the Navy	1,160,643	387,115	325,962	90	395,946	9,327	29,655	2,623	0	9,925
Department of Education	209,506	9,829	6,353	0	150,188	0	43,136	0	0	0
Department of Energy	6,486,698	531,566	375,023	590,944	766,779	3,061,806	57,973	1,101,740	0	867
Bonneville Power Administration	6,720	6,720	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	28,882	1	0	3,597	0	25,284	0	0	0	0
Electricity Delivery and Energy Restoration	57,185	1	28,865	9,877	4,635	6,434	0	7,373	0	0
Energy Efficiency and Renewable Energy	367,570	143,620	0	36,376	37,769	33,966	10,444	105,395	0	0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2008  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Environmental Management	6,417	1	0	64	6,288	26	0	38	0	0
Fossil Energy	217,204	31,797	114,234	5,160	46,900	4,403	6,998	7,712	0	0
National Nuclear Security Administration	2,203,609	276,601	76,551	383,318	53,044	1,357,115	16,876	40,104	0	0
Defense Programs	2,067,216	265,885	71,071	354,650	53,044	1,305,690	16,876	0	0	0
Nonproliferation and Verification	136,393	10,716	5,480	28,668	0	51,425	0	40,104	0	0
Nuclear Energy	208,217	1	40	99,392	6,000	92,505	0	10,279	0	0
Office of Science	3,390,894	72,824	155,333	53,160	612,143	1,542,073	23,655	930,839	0	867
Department of Health and Human Services	28,781,061	5,717,854	1,884,720	295,974	15,859,305	73,294	4,418,014	40,833	163,883	327,184
Administration for Children and Families	15,058	287	0	0	12,729	0	1,729	0	313	0
Agency for Healthcare Research and Quality	303,198	51,653	102,275	0	74,561	0	68,400	0	3,784	2,525
Agency for Toxic Substances and Disease Registry	6,434	4,764	0	0	1,520	0	0	0	150	0
Centers for Disease Control and Prevention	534,222	192,808	5,287	0	170,270	0	101,978	0	42,227	21,652
Centers for Medicare and Medicaid Services	33,700	20	18,016	0	1,975	0	4,689	0	9,000	0
Food and Drug Administration	137,839	109,672	3,718	0	13,971	0	9,915	0	225	338
Health Resources and Services Administration	17,290	3,221	0	0	11,364	0	2,705	0	0	0
National Institutes of Health	27,707,919	5,349,041	1,746,208	295,974	15,569,269	73,294	4,222,447	40,833	108,184	302,669
Office of the Secretary	25,401	6,388	9,216	0	3,646	0	6,151	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,401	6,388	9,216	0	3,646	0	6,151	0	0	0
Department of Homeland Security	319,761	63,825	108,902	15,001	26,339	49,999	19,589	35,548	538	20
Science and Technology Directorate	312,547	58,516	106,997	15,001	26,339	49,999	19,589	35,548	538	20
U.S. Coast Guard	6,275	4,425	1,850	0	0	0	0	0	0	0
U.S. Secret Service	939	884	55	0	0	0	0	0	0	0
Department of Housing and Urban Development	13,883	9,494	2,069	0	666	0	1,654	0	0	0
Department of the Interior	521,021	452,319	9,833	0	39,232	0	1,271	0	17,438	928
Bureau of Reclamation	3,151	1,008	788	0	252	0	1,071	0	32	0
Geological Survey	491,865	440,841	3,698	0	30,720	0	0	0	16,606	0
Minerals Management Service	26,005	10,470	5,347	0	8,260	0	200	0	800	928
Department of Justice	43,538	6,903	7,600	75	15,150	0	11,800	250	1,760	0
Bureau of Prisons	2,793	1,043	0	0	0	0	0	0	1,750	0
Office of Justice Programs	40,745	5,860	7,600	75	15,150	0	11,800	250	10	0
Department of Labor	31,115	14,235	1,353	0	1,058	0	14,414	0	55	0
Bureau of Labor Statistics	22,800	8,900	400	0	0	0	13,500	0	0	0
Employee Benefits Security Administration	2,577	978	875	0	0	0	724	0	0	0
Employment and Training Administration	1,450	69	78	0	1,058	0	190	0	55	0
Occupational Safety and Health Administration	3,810	3,810	0	0	0	0	0	0	0	0
Office of the Secretary	250	250	0	0	0	0	0	0	0	0

TABLE 18. Preliminary federal obligations for research, by agency and performer: FY 2008  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Pension Benefit Guaranty Corporation	228	228	0	0	0	0	0	0	0	0
Department of State	4,757	757	4,000	0	0	0	0	0	0	0
Department of Transportation	584,852	225,783	232,235	1,430	51,533	1,484	63,135	254	8,698	300
Federal Aviation Administration	140,000	70,169	43,355	1,430	23,786	1,260	0	0	0	0
Federal Highway Administration	332,461	85,338	166,112	0	10,700	224	61,135	254	8,698	0
Federal Motor Carrier Safety Administration	6,577	2,277	2,900	0	700	0	700	0	0	0
Federal Railroad Administration	27,701	18,798	8,053	0	550	0	0	0	0	300
Federal Transit Administration	3,841	291	350	0	2,000	0	1,200	0	0	0
National Highway Traffic Safety Administration	65,699	42,047	9,855	0	13,797	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	2,241	631	1,610	0	0	0	0	0	0	0
Research and Innovative Technology Administration	6,332	6,232	0	0	0	0	100	0	0	0
Department of the Treasury	68,838	62,778	5,800	0	0	0	10	250	0	0
Bureau of Engraving and Printing	7,838	7,838	0	0	0	0	0	0	0	0
Internal Revenue Service	61,000	54,940	5,800	0	0	0	10	250	0	0
Department of Veterans Affairs	390,929	390,929	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	215,000	27,405	11,021	0	24,264	0	152,310	0	0	0
Appalachian Regional Commission	705	55	250	0	0	200	200	0	0	0
Environmental Protection Agency	437,986	349,206	15,664	0	45,538	0	21,033	0	4,954	1,591
Federal Communications Commission	6,308	6,308	0	0	0	0	0	0	0	0
Federal Trade Commission	1,974	1,974	0	0	0	0	0	0	0	0
Library of Congress	345	345	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	3,194,714	634,352	1,167,740	206	484,406	612,329	116,570	5,028	171,441	2,642
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	4,357,720	38,618	175,790	0	3,569,088	255,052	285,051	8,267	10,509	15,345
Nuclear Regulatory Commission	70,933	18,340	12,041	11,131	1,700	10,651	580	14,485	0	2,005
Smithsonian Institution	136,000	136,000	0	0	0	0	0	0	0	0
Social Security Administration	100,696	3,050	77,581	0	8,533	0	5,685	0	5,847	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 19. Federal obligations for research, by detailed field of science and engineering: FY 2006–08  
(Dollars in thousands)

Field	2006	Preliminary	
		2007	2008
All fields	53,535,650	55,074,593	54,708,682
Environmental sciences	3,430,620	3,343,209	3,408,269
Atmospheric sciences	1,166,906	NA	NA
Geological sciences	653,886	NA	NA
Oceanography	745,842	NA	NA
Environmental sciences, nec	863,986	NA	NA
Life sciences	27,927,700	27,814,384	27,532,739
Agricultural sciences	1,108,158	NA	NA
Biological sciences (excluding environmental biology)	13,690,835	NA	NA
Environmental biology	686,595	NA	NA
Medical sciences	10,592,189	NA	NA
Life sciences, nec	1,849,923	NA	NA
Mathematics and computer sciences	2,814,924	3,193,629	3,129,151
Computer sciences	1,987,816	NA	NA
Mathematics	669,174	NA	NA
Mathematics and computer sciences, nec	157,934	NA	NA
Physical sciences	5,351,105	5,467,852	5,607,025
Astronomy	792,461	NA	NA
Chemistry	1,126,368	NA	NA
Physics	3,001,807	NA	NA
Physical sciences, nec	430,469	NA	NA
Psychology	1,747,309	1,756,997	1,758,272
Biological aspects	3,014	NA	NA
Social aspects	40,927	NA	NA
Psychological sciences, nec	1,703,368	NA	NA
Social sciences	1,123,926	1,140,971	1,146,285
Anthropology	15,129	NA	NA
Economics	202,587	NA	NA
Political science	44,607	NA	NA
Sociology	144,181	NA	NA
Social sciences, nec	717,422	NA	NA
Other sciences, nec	2,461,336	2,931,598	2,868,516
Engineering	8,678,730	9,425,953	9,258,425
Aeronautical engineering	1,229,172	NA	NA
Astronautical engineering	476,349	NA	NA
Chemical engineering	294,594	NA	NA
Civil engineering	352,675	NA	NA
Electrical engineering	1,035,477	NA	NA
Mechanical engineering	298,155	NA	NA
Metallurgy and materials engineering	1,249,963	NA	NA
Engineering, nec	3,742,345	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	53,535,650	3,430,620	27,927,700	2,814,924	5,351,105	1,747,309	1,123,926	2,461,336	8,678,730
Departments									
Department of Agriculture	2,030,538	23,183	1,670,724	19,824	99,095	530	150,585	0	66,597
Agricultural Marketing Service	6,337	0	6,337	0	0	0	0	0	0
Agricultural Research Service	1,021,446	4,494	938,402	1,328	68,029	0	0	0	9,193
Cooperative State Research, Education, and Extension Service	645,095	10,952	546,649	0	17,386	0	54,230	0	15,878
Economic Research Service	75,004	0	0	0	0	0	75,004	0	0
Foreign Agricultural Service	864	0	864	0	0	0	0	0	0
Forest Service	264,020	7,737	168,885	11,981	13,680	530	19,681	0	41,526
Grain Inspection, Packers, and Stockyards Administration	7,112	0	7,112	0	0	0	0	0	0
National Agricultural Statistics Service	6,515	0	0	6,515	0	0	0	0	0
Rural Business-Cooperative Service	4,145	0	2,475	0	0	0	1,670	0	0
Department of Commerce	840,174	365,597	80,175	75,619	145,567	360	10,296	10,647	151,913
Economic Development Administration	233	0	0	0	0	0	233	0	0
National Institute of Standards and Technology	355,454	1,253	8,954	68,715	130,800	0	46	6,117	139,569
National Oceanic and Atmospheric Administration	471,805	364,344	71,221	3,303	14,767	0	7,976	4,530	5,664
National Telecommunications and Information Administration	6,680	0	0	0	0	0	0	0	6,680
U.S. Census Bureau	6,002	0	0	3,601	0	360	2,041	0	0
Department of Defense	5,751,934	335,732	591,702	843,843	628,278	46,568	15,718	246,383	3,043,710
Defense agencies and activities	1,740,641	15,954	266,701	464,610	178,813	2,025	0	94,132	718,406
Chemical and Biological Defense	97,642	0	52,484	0	45,158	0	0	0	0
Defense Advanced Research Projects Agency	1,185,347	14,075	186,377	413,221	59,308	0	0	7,155	505,211
Defense Threat Reduction Agency	331,703	0	2,930	40,006	67,995	0	0	86,804	133,968
Office of the Secretary of Defense <sup>a</sup>	100,216	1,879	23,340	11,383	6,352	2,025	0	173	55,064
Special Operations Command	25,733	0	1,570	0	0	0	0	0	24,163
Department of the Air Force	1,351,095	30,797	51,686	94,709	181,121	15,193	0	141,598	835,991
Materiel Command	1,351,095	30,797	51,686	94,709	181,121	15,193	0	141,598	835,991
Department of the Army	1,452,598	26,312	164,539	217,915	196,262	29,350	15,718	10,653	791,849
Department of the Navy	1,207,600	262,669	108,776	66,609	72,082	0	0	0	697,464
Department of Education	215,562	0	21,080	0	0	4,891	176,195	0	13,396
Department of Energy	5,720,253	331,893	366,514	830,005	2,316,801	0	0	7,038	1,868,002
Bonneville Power Administration	9,755	7,603	0	0	0	0	0	0	2,152
Civilian Radioactive Waste Management	52,922	52,922	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	93,449	0	0	0	0	0	0	0	93,449
Energy Efficiency and Renewable Energy	211,328	0	272	0	885	0	0	0	210,171

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Environmental Management	10,192	10,192	0	0	0	0	0	0	0
Fossil Energy	218,132	20,005	0	0	40,448	0	0	0	157,679
National Nuclear Security Administration	2,218,715	9,114	1,250	607,711	797,844	0	0	7,038	795,758
Defense Programs	2,076,191	0	0	599,772	717,397	0	0	0	759,022
Nonproliferation and Verification	142,524	9,114	1,250	7,939	80,447	0	0	7,038	36,736
Nuclear Energy	87,472	0	0	0	0	0	0	0	87,472
Office of Science	2,818,288	232,057	364,992	222,294	1,477,624	0	0	0	521,321
Department of Health and Human Services	28,679,592	435,268	23,282,905	181,777	390,288	1,603,663	313,643	1,540,320	931,728
Administration for Children and Families	14,445	0	0	0	0	0	14,445	0	0
Administration on Aging	2,931	0	0	0	0	0	2,931	0	0
Agency for Healthcare Research and Quality	293,180	0	166,115	29,475	0	568	26,257	70,765	0
Agency for Toxic Substances and Disease Registry	8,966	8,966	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	544,583	0	544,583	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	62,394	0	62,394	0	0	0	0	0	0
Food and Drug Administration	143,349	0	143,349	0	0	0	0	0	0
Health Resources and Services Administration	17,342	0	17,342	0	0	0	0	0	0
National Institutes of Health	27,565,559	426,302	22,349,122	152,302	390,288	1,603,095	243,167	1,469,555	931,728
Office of the Secretary	26,843	0	0	0	0	0	26,843	0	0
Office of the Assistant Secretary, Planning and Evaluation	26,843	0	0	0	0	0	26,843	0	0
Department of Homeland Security	606,183	752	199,269	23,557	118,871	10,482	32,702	89,858	130,692
Science and Technology Directorate	595,574	0	199,269	22,017	118,871	8,803	32,702	87,282	126,630
Transportation Security Administration	2,576	0	0	0	0	0	0	2,576	0
U.S. Coast Guard	7,065	752	0	1,540	0	711	0	0	4,062
U.S. Secret Service	968	0	0	0	0	968	0	0	0
Department of Housing and Urban Development	11,502	126	0	119	0	0	9,656	652	949
Department of the Interior	551,072	338,159	185,408	11,240	651	0	4,607	278	10,729
Bureau of Reclamation	3,085	0	247	0	0	0	0	278	2,560
Geological Survey	515,464	322,357	174,191	11,240	354	0	2,628	0	4,694
Minerals Management Service	28,869	14,186	9,421	0	0	0	1,787	0	3,475
National Park Service <sup>b</sup>	3,654	1,616	1,549	0	297	0	192	0	0
Department of Justice	52,972	0	0	0	0	0	43,972	9,000	0
Bureau of Prisons	2,744	0	0	0	0	0	2,744	0	0
Office of Justice Programs	50,228	0	0	0	0	0	41,228	9,000	0
Department of Labor	30,136	0	0	0	0	0	30,136	0	0
Bureau of Labor Statistics	22,800	0	0	0	0	0	22,800	0	0
Employee Benefits Security Administration	2,622	0	0	0	0	0	2,622	0	0
Employment and Training Administration	660	0	0	0	0	0	660	0	0
Occupational Safety and Health Administration	3,500	0	0	0	0	0	3,500	0	0

TABLE 20. Federal obligations for research, by agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Office of the Secretary	339	0	0	0	0	0	339	0	0
Pension Benefit Guaranty Corporation	215	0	0	0	0	0	215	0	0
Department of State	4,161	0	0	0	0	0	4,161	0	0
Department of Transportation	535,191	33,694	13,086	12,536	1,651	19,845	15,875	56,747	381,757
Federal Aviation Administration	136,620	19,768	8,314	0	0	19,746	0	18,614	70,178
Federal Highway Administration	288,397	13,926	151	4,970	0	99	4,396	33,319	231,536
Federal Motor Carrier Safety Administration	5,313	0	0	0	0	0	0	4,814	499
Federal Railroad Administration	40,823	0	0	0	0	0	0	0	40,823
Federal Transit Administration	3,559	0	0	0	0	0	3,559	0	0
National Highway Traffic Safety Administration	57,510	0	4,621	6,992	0	0	7,920	0	37,977
Pipeline and Hazardous Materials Safety Administration	2,225	0	0	574	1,651	0	0	0	0
Research and Innovative Technology Administration	744	0	0	0	0	0	0	0	744
Department of the Treasury	60,718	0	0	0	5,330	0	0	55,388	0
Bureau of Engraving and Printing	5,330	0	0	0	5,330	0	0	0	0
Internal Revenue Service	55,388	0	0	0	0	0	0	55,388	0
Department of Veterans Affairs	391,880	0	330,760	0	0	43,473	0	0	17,647
Other agencies									
Agency for International Development	215,000	3,674	141,219	0	0	0	51,432	18,675	0
Appalachian Regional Commission	985	0	0	0	0	0	985	0	0
Broadcasting Board of Governors	218	0	0	0	0	0	0	0	218
Environmental Protection Agency	504,797	172,474	232,908	18,073	14,627	0	2,412	5,598	58,705
Federal Communications Commission	7,123	0	0	375	1,350	0	3,133	0	2,265
Federal Trade Commission	1,606	0	0	0	0	0	1,606	0	0
Library of Congress	3,339	0	0	2,008	1,331	0	0	0	0
National Aeronautics and Space Administration	3,271,781	738,204	190,693	58,416	852,438	12,902	554	155,352	1,263,222
National Archives and Records Administration	120	50	0	0	70	0	0	0	0
National Science Foundation	3,790,586	646,618	571,458	737,532	729,092	4,595	171,102	264,374	665,815
Nuclear Regulatory Commission	71,385	0	0	0	0	0	0	0	71,385
Smithsonian Institution	119,000	5,196	49,799	0	45,665	0	17,314	1,026	0
Social Security Administration	67,842	0	0	0	0	0	67,842	0	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	55,074,593	3,343,209	27,814,384	3,193,629	5,467,852	1,756,997	1,140,971	2,931,598	9,425,953
Departments									
Department of Agriculture	2,087,612	19,456	1,697,835	20,767	103,962	568	161,911	4,405	78,708
Agricultural Marketing Service	6,628	0	6,628	0	0	0	0	0	0
Agricultural Research Service	962,811	4,236	884,535	1,251	64,124	0	0	0	8,665
Cooperative State Research, Education, and Extension Service	743,203	6,929	617,207	0	25,176	0	68,347	0	25,544
Economic Research Service	75,193	0	0	0	0	0	75,193	0	0
Foreign Agricultural Service	864	0	864	0	0	0	0	0	0
Forest Service	282,940	8,291	180,989	12,840	14,662	568	16,686	4,405	44,499
Grain Inspection, Packers, and Stockyards Administration	6,676	0	6,676	0	0	0	0	0	0
National Agricultural Statistics Service	6,676	0	0	6,676	0	0	0	0	0
Rural Business-Cooperative Service	2,621	0	936	0	0	0	1,685	0	0
Department of Commerce	794,399	290,324	53,592	81,207	163,559	348	14,894	11,642	178,833
Economic Development Administration	1,076	0	0	0	0	0	1,076	0	0
National Institute of Standards and Technology	409,662	1,296	11,398	74,668	150,027	0	48	6,380	165,845
National Oceanic and Atmospheric Administration	370,729	289,028	42,194	3,060	13,532	0	11,799	5,262	5,854
National Telecommunications and Information Administration	7,134	0	0	0	0	0	0	0	7,134
U.S. Census Bureau	5,798	0	0	3,479	0	348	1,971	0	0
Department of Defense	6,856,092	366,438	821,387	1,060,869	670,409	58,853	9,917	355,440	3,512,779
Defense agencies and activities	2,382,114	23,871	361,576	709,748	202,667	2,488	0	111,869	969,895
Chemical and Biological Defense	85,023	0	48,944	0	36,079	0	0	0	0
Defense Advanced Research Projects Agency	1,832,788	21,633	289,065	636,596	91,427	0	0	10,997	783,070
Defense Threat Reduction Agency	327,500	0	1,084	51,234	67,309	0	0	100,768	107,105
Office of the Secretary of Defense <sup>a</sup>	114,088	2,238	19,955	21,918	7,852	2,488	0	104	59,533
Special Operations Command	22,715	0	2,528	0	0	0	0	0	20,187
Department of the Air Force	1,481,708	23,620	43,720	71,548	197,848	26,789	0	185,648	932,535
Materiel Command	1,481,708	23,620	43,720	71,548	197,848	26,789	0	185,648	932,535
Department of the Army	1,628,070	23,918	293,879	204,742	189,133	29,576	9,917	52,177	824,728
Department of the Navy	1,364,200	295,029	122,212	74,831	80,761	0	0	5,746	785,621
Department of Education	206,623	0	19,209	0	0	4,915	168,556	0	13,943
Department of Energy	6,055,439	296,088	303,831	928,967	2,424,540	0	0	9,835	2,092,178
Bonneville Power Administration	8,519	6,144	0	0	40	0	0	418	1,917
Civilian Radioactive Waste Management	12,360	12,360	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	65,930	0	0	0	0	0	0	0	65,930
Energy Efficiency and Renewable Energy	342,901	0	131	0	427	0	0	0	342,343

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other	Engineering
				and computer sciences				sciences, nec	
Environmental Management	6,417	6,417	0	0	0	0	0	0	0
Fossil Energy	206,901	18,651	0	0	40,422	0	0	0	147,828
National Nuclear Security Administration	2,087,263	20,526	500	625,110	691,853	0	0	9,417	739,857
Defense Programs	1,950,870	0	0	617,955	619,469	0	0	0	713,446
Nonproliferation and Verification	136,393	20,526	500	7,155	72,384	0	0	9,417	26,411
Nuclear Energy	68,102	0	0	0	0	0	0	0	68,102
Office of Science	3,257,046	231,990	303,200	303,857	1,691,798	0	0	0	726,201
Department of Health and Human Services	28,720,607	438,082	23,314,854	182,106	391,129	1,607,115	310,098	1,543,487	933,736
Administration for Children and Families	14,748	0	0	0	0	0	14,748	0	0
Agency for Healthcare Research and Quality	293,196	0	166,124	29,477	0	568	26,258	70,769	0
Agency for Toxic Substances and Disease Registry	10,861	10,861	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	534,222	0	534,222	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	57,420	0	57,420	0	0	0	0	0	0
Food and Drug Administration	142,586	0	142,586	0	0	0	0	0	0
Health Resources and Services Administration	17,273	0	17,273	0	0	0	0	0	0
National Institutes of Health	27,624,900	427,221	22,397,229	152,629	391,129	1,606,547	243,691	1,472,718	933,736
Office of the Secretary	25,401	0	0	0	0	0	25,401	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,401	0	0	0	0	0	25,401	0	0
Department of Homeland Security	431,546	698	217,699	32,971	20,000	5,813	0	79,869	74,496
Science and Technology Directorate	423,587	0	217,699	31,250	20,000	3,968	0	79,869	70,801
U.S. Coast Guard	7,079	698	0	1,721	0	965	0	0	3,695
U.S. Secret Service	880	0	0	0	0	880	0	0	0
Department of Housing and Urban Development	12,750	40	0	132	0	0	10,703	823	1,052
Department of the Interior	524,580	315,685	180,409	9,988	1,900	0	5,575	274	10,749
Bureau of Reclamation	2,980	0	253	0	0	0	0	274	2,453
Geological Survey	495,176	302,464	173,114	9,988	1,900	0	3,855	0	3,855
Minerals Management Service	26,424	13,221	7,042	0	0	0	1,720	0	4,441
Department of Justice	49,858	0	0	0	0	0	44,858	5,000	0
Bureau of Prisons	2,763	0	0	0	0	0	2,763	0	0
Office of Justice Programs	47,095	0	0	0	0	0	42,095	5,000	0
Department of Labor	31,556	0	0	0	0	0	31,556	0	0
Bureau of Labor Statistics	22,600	0	0	0	0	0	22,600	0	0
Employee Benefits Security Administration	2,558	0	0	0	0	0	2,558	0	0
Employment and Training Administration	2,163	0	0	0	0	0	2,163	0	0
Occupational Safety and Health Administration	3,724	0	0	0	0	0	3,724	0	0
Office of the Secretary	290	0	0	0	0	0	290	0	0
Pension Benefit Guaranty Corporation	221	0	0	0	0	0	221	0	0

TABLE 21. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of State	4,338	0	0	0	0	0	4,338	0	0
Department of Transportation	553,038	37,997	13,822	11,986	2,231	17,857	15,657	70,969	382,519
Federal Aviation Administration	131,297	22,611	7,032	0	0	17,653	0	29,030	54,971
Federal Highway Administration	307,400	15,386	127	4,420	0	204	3,712	35,374	248,177
Federal Motor Carrier Safety Administration	8,698	0	2,042	0	0	0	0	6,565	91
Federal Railroad Administration	40,046	0	0	0	0	0	0	0	40,046
Federal Transit Administration	4,025	0	0	0	0	0	4,025	0	0
National Highway Traffic Safety Administration	57,510	0	4,621	6,992	0	0	7,920	0	37,977
Pipeline and Hazardous Materials Safety Administration	2,805	0	0	574	2,231	0	0	0	0
Research and Innovative Technology Administration	1,257	0	0	0	0	0	0	0	1,257
Department of the Treasury	61,856	0	0	0	7,107	0	0	54,749	0
Bureau of Engraving and Printing	7,125	0	0	0	7,107	0	0	18	0
Internal Revenue Service	54,731	0	0	0	0	0	0	54,731	0
Department of Veterans Affairs	393,764	0	0	0	0	43,681	0	332,349	17,734
Other agencies									
Agency for International Development	215,000	3,674	141,219	0	0	0	51,432	18,675	0
Appalachian Regional Commission	704	0	0	0	0	0	704	0	0
Environmental Protection Agency	449,390	153,473	207,441	16,091	13,022	0	2,146	4,980	52,237
Federal Communications Commission	7,734	0	0	375	1,200	0	3,789	0	2,370
Federal Trade Commission	1,684	0	0	0	0	0	1,684	0	0
Library of Congress	315	0	0	0	315	0	0	0	0
National Aeronautics and Space Administration	3,260,632	737,437	189,702	57,790	853,539	12,800	557	155,816	1,252,991
National Archives and Records Administration	120	50	0	0	70	0	0	0	0
National Science Foundation	4,051,033	678,223	599,552	790,380	765,912	5,047	184,556	282,247	745,116
Nuclear Regulatory Commission	76,512	0	0	0	0	0	0	0	76,512
Smithsonian Institution	128,000	5,544	53,832	0	48,957	0	18,629	1,038	0
Social Security Administration	99,411	0	0	0	0	0	99,411	0	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	54,708,682	3,408,269	27,532,739	3,129,151	5,607,025	1,758,272	1,146,285	2,868,516	9,258,425
Departments									
Department of Agriculture	1,806,725	16,206	1,468,990	19,194	91,427	492	142,618	3,815	63,983
Agricultural Marketing Service	6,801	0	6,801	0	0	0	0	0	0
Agricultural Research Service	919,365	4,045	844,621	1,195	61,230	0	0	0	8,274
Cooperative State Research, Education, and Extension Service	536,199	4,979	452,043	0	17,496	0	44,520	0	17,161
Economic Research Service	82,544	0	0	0	0	0	82,544	0	0
Foreign Agricultural Service	864	0	864	0	0	0	0	0	0
Forest Service	245,100	7,182	156,785	11,123	12,701	492	14,454	3,815	38,548
Grain Inspection, Packers, and Stockyards Administration	7,876	0	7,876	0	0	0	0	0	0
National Agricultural Statistics Service	6,876	0	0	6,876	0	0	0	0	0
Rural Business-Cooperative Service	1,100	0	0	0	0	0	1,100	0	0
Department of Commerce	840,436	325,836	60,253	80,134	170,177	302	14,964	11,700	177,070
National Institute of Standards and Technology	411,287	1,249	11,800	73,673	154,809	0	45	6,003	163,708
National Oceanic and Atmospheric Administration	416,984	324,587	48,453	3,442	15,368	0	13,209	5,697	6,228
National Telecommunications and Information Administration	7,134	0	0	0	0	0	0	0	7,134
U.S. Census Bureau	5,031	0	0	3,019	0	302	1,710	0	0
Department of Defense	6,083,061	325,937	711,643	957,624	728,017	54,665	15,276	282,475	3,007,424
Defense agencies and activities	2,378,941	22,450	422,784	649,591	318,033	2,868	7,300	72,631	883,284
Chemical and Biological Defense	325,265	0	143,911	0	181,354	0	0	0	0
Defense Advanced Research Projects Agency	1,712,592	20,153	271,567	594,837	85,505	0	0	10,244	730,286
Defense Threat Reduction Agency	202,625	0	671	31,707	41,655	0	0	62,309	66,283
Office of the Secretary of Defense <sup>a</sup>	115,160	2,297	4,262	23,047	9,519	2,868	7,300	78	65,789
Special Operations Command	23,299	0	2,373	0	0	0	0	0	20,926
Department of the Air Force	1,388,700	24,367	25,576	70,586	195,488	22,981	0	186,368	863,334
Materiel Command	1,388,700	24,367	25,576	70,586	195,488	22,981	0	186,368	863,334
Department of the Army	1,154,777	19,704	156,456	171,961	139,613	28,816	7,976	16,918	613,333
Department of the Navy	1,160,643	259,416	106,827	65,486	74,883	0	0	6,558	647,473
Department of Education	209,506	0	20,389	0	0	4,944	171,589	0	12,584
Department of Energy	6,486,698	325,947	319,858	920,091	2,450,499	0	0	9,581	2,460,722
Bonneville Power Administration	6,720	6,139	0	0	60	0	0	164	357
Civilian Radioactive Waste Management	28,882	28,882	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	57,185	0	0	0	0	0	0	0	57,185
Energy Efficiency and Renewable Energy	367,570	0	198	0	645	0	0	0	366,727
Environmental Management	6,417	6,417	0	0	0	0	0	0	0



TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Fossil Energy	217,204	20,762	0	0	42,524	0	0	0	153,918
National Nuclear Security Administration	2,203,609	20,526	500	592,893	649,565	0	0	9,417	930,708
Defense Programs	2,067,216	0	0	585,738	577,181	0	0	0	904,297
Nonproliferation and Verification	136,393	20,526	500	7,155	72,384	0	0	9,417	26,411
Nuclear Energy	208,217	0	0	0	0	0	0	0	208,217
Office of Science	3,390,894	243,221	319,160	327,198	1,757,705	0	0	0	743,610
Department of Health and Human Services	28,781,061	434,938	23,359,380	183,570	392,304	1,611,962	312,037	1,550,329	936,541
Administration for Children and Families	15,058	0	0	0	0	0	15,058	0	0
Agency for Healthcare Research and Quality	303,198	0	171,791	30,482	0	587	27,154	73,184	0
Agency for Toxic Substances and Disease Registry	6,434	6,434	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	534,222	0	534,222	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	33,700	0	33,700	0	0	0	0	0	0
Food and Drug Administration	137,839	0	137,839	0	0	0	0	0	0
Health Resources and Services Administration	17,290	0	17,290	0	0	0	0	0	0
National Institutes of Health	27,707,919	428,504	22,464,538	153,088	392,304	1,611,375	244,424	1,477,145	936,541
Office of the Secretary	25,401	0	0	0	0	0	25,401	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,401	0	0	0	0	0	25,401	0	0
Department of Homeland Security	319,761	652	160,631	24,757	14,758	4,801	0	58,931	55,231
Science and Technology Directorate	312,547	0	160,631	23,058	14,758	2,928	0	58,931	52,241
U.S. Coast Guard	6,275	652	0	1,699	0	934	0	0	2,990
U.S. Secret Service	939	0	0	0	0	939	0	0	0
Department of Housing and Urban Development	13,883	52	0	143	0	0	11,654	888	1,146
Department of the Interior	521,021	311,191	185,549	8,435	1,900	0	5,079	290	8,577
Bureau of Reclamation	3,151	0	268	0	0	0	0	290	2,593
Geological Survey	491,865	297,134	177,896	8,435	1,900	0	3,250	0	3,250
Minerals Management Service	26,005	14,057	7,385	0	0	0	1,829	0	2,734
Department of Justice	43,538	0	0	0	0	0	41,538	2,000	0
Bureau of Prisons	2,793	0	0	0	0	0	2,793	0	0
Office of Justice Programs	40,745	0	0	0	0	0	38,745	2,000	0
Department of Labor	31,115	0	0	0	0	0	31,115	0	0
Bureau of Labor Statistics	22,800	0	0	0	0	0	22,800	0	0
Employee Benefits Security Administration	2,577	0	0	0	0	0	2,577	0	0
Employment and Training Administration	1,450	0	0	0	0	0	1,450	0	0
Occupational Safety and Health Administration	3,810	0	0	0	0	0	3,810	0	0
Office of the Secretary	250	0	0	0	0	0	250	0	0
Pension Benefit Guaranty Corporation	228	0	0	0	0	0	228	0	0
Department of State	4,757	0	0	0	0	0	4,757	0	0

TABLE 22. Preliminary federal obligations for research, by agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of Transportation	584,852	43,935	12,431	13,991	1,745	20,102	17,425	72,162	403,061
Federal Aviation Administration	140,000	27,643	6,780	0	0	19,905	0	29,404	56,268
Federal Highway Administration	332,461	16,292	151	5,495	0	197	4,385	36,487	269,454
Federal Motor Carrier Safety Administration	6,577	0	0	0	0	0	0	6,271	306
Federal Railroad Administration	27,701	0	0	0	0	0	0	0	27,701
Federal Transit Administration	3,841	0	0	0	0	0	3,841	0	0
National Highway Traffic Safety Administration	65,699	0	5,500	8,000	0	0	9,199	0	43,000
Pipeline and Hazardous Materials Safety Administration	2,241	0	0	496	1,745	0	0	0	0
Research and Innovative Technology Administration	6,332	0	0	0	0	0	0	0	6,332
Department of the Treasury	68,838	0	0	0	7,820	0	0	61,018	0
Bureau of Engraving and Printing	7,838	0	0	0	7,820	0	0	18	0
Internal Revenue Service	61,000	0	0	0	0	0	0	61,000	0
Department of Veterans Affairs	390,929	0	0	0	0	43,368	0	329,956	17,605
Other agencies									
Agency for International Development	215,000	3,674	141,219	0	0	0	51,432	18,675	0
Appalachian Regional Commission	705	0	0	0	0	0	705	0	0
Environmental Protection Agency	437,986	149,442	202,365	15,687	12,694	0	2,089	4,846	50,863
Federal Communications Commission	6,308	0	0	525	750	0	2,888	0	2,145
Federal Trade Commission	1,974	0	0	0	0	0	1,974	0	0
Library of Congress	345	0	0	0	345	0	0	0	0
National Aeronautics and Space Administration	3,194,714	730,093	184,061	55,600	853,526	12,258	564	157,011	1,201,601
National Archives and Records Administration	120	50	0	0	70	0	0	0	0
National Science Foundation	4,357,720	734,376	649,131	849,400	828,874	5,378	197,892	303,730	788,939
Nuclear Regulatory Commission	70,933	0	0	0	0	0	0	0	70,933
Smithsonian Institution	136,000	5,940	56,839	0	52,119	0	19,993	1,109	0
Social Security Administration	100,696	0	0	0	0	0	100,696	0	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies	3,430,620	1,166,906	653,886	745,842	863,986	5,351,105	792,461	1,126,368	3,001,807	430,469
Departments										
Department of Agriculture	23,183	21,496	1,687	0	0	99,095	0	93,204	5,891	0
Agricultural Research Service	4,494	4,392	102	0	0	68,029	0	64,862	3,167	0
Cooperative State Research, Education, and Extension Service	10,952	10,952	0	0	0	17,386	0	17,386	0	0
Forest Service	7,737	6,152	1,585	0	0	13,680	0	10,956	2,724	0
Department of Commerce	365,597	150,899	1,787	163,998	48,913	145,567	187	33,356	109,703	2,321
National Institute of Standards and Technology	1,253	631	138	100	384	130,800	187	31,799	96,493	2,321
National Oceanic and Atmospheric Administration	364,344	150,268	1,649	163,898	48,529	14,767	0	1,557	13,210	0
Department of Defense	335,732	46,296	23,526	238,305	27,605	628,278	9,037	129,822	335,823	153,596
Defense agencies and activities	15,954	2,670	199	6,662	6,423	178,813	0	23,560	84,348	70,905
Chemical and Biological Defense	0	0	0	0	0	45,158	0	1,597	0	43,561
Defense Advanced Research Projects Agency	14,075	1,830	0	5,822	6,423	59,308	0	18,565	13,399	27,344
Defense Threat Reduction Agency	0	0	0	0	0	67,995	0	0	67,995	0
Office of the Secretary of Defense <sup>a</sup>	1,879	840	199	840	0	6,352	0	3,398	2,954	0
Department of the Air Force	30,797	12,155	16,456	0	2,186	181,121	9,037	19,733	150,570	1,781
Materiel Command	30,797	12,155	16,456	0	2,186	181,121	9,037	19,733	150,570	1,781
Department of the Army	26,312	13,422	6,871	0	6,019	196,262	0	55,072	79,121	62,069
Department of the Navy	262,669	18,049	0	231,643	12,977	72,082	0	31,457	21,784	18,841
Department of Energy	331,893	169,923	119,034	5,041	37,895	2,316,801	0	223,046	2,012,711	81,044
Bonneville Power Administration	7,603	0	0	0	7,603	0	0	0	0	0
Civilian Radioactive Waste Management	52,922	52,922	0	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	885	0	885	0	0
Environmental Management	10,192	0	0	0	10,192	0	0	0	0	0
Fossil Energy	20,005	0	0	0	20,005	40,448	0	40,448	0	0
National Nuclear Security Administration	9,114	2,357	6,662	0	95	797,844	0	29,718	687,082	81,044
Defense Programs	0	0	0	0	0	717,397	0	0	668,372	49,025
Nonproliferation and Verification	9,114	2,357	6,662	0	95	80,447	0	29,718	18,710	32,019
Office of Science	232,057	114,644	112,372	5,041	0	1,477,624	0	151,995	1,325,629	0
Department of Health and Human Services	435,268	0	0	0	435,268	390,288	0	369,262	0	21,026
Agency for Toxic Substances and Disease Registry	8,966	0	0	0	8,966	0	0	0	0	0
National Institutes of Health	426,302	0	0	0	426,302	390,288	0	369,262	0	21,026
Department of Homeland Security	752	0	0	0	752	118,871	0	51,408	66,401	1,062
Science and Technology Directorate	0	0	0	0	0	118,871	0	51,408	66,401	1,062
U.S. Coast Guard	752	0	0	0	752	0	0	0	0	0
Department of Housing and Urban Development	126	0	0	0	126	0	0	0	0	0

TABLE 23. Federal obligations for research in environmental and physical sciences, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
Department of the Interior	338,159	1,384	195,046	8,850	132,879	651	0	0	0	651
Geological Survey	322,357	0	194,258	0	128,099	354	0	0	0	354
Minerals Management Service	14,186	1,069	687	8,830	3,600	0	0	0	0	0
National Park Service <sup>b</sup>	1,616	315	101	20	1,180	297	0	0	0	297
Department of Transportation	33,694	20,863	0	2,678	10,153	1,651	0	0	0	1,651
Federal Aviation Administration	19,768	19,768	0	0	0	0	0	0	0	0
Federal Highway Administration	13,926	1,095	0	2,678	10,153	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	0	0	0	0	0	1,651	0	0	0	1,651
Department of the Treasury	0	0	0	0	0	5,330	0	25	0	5,305
Bureau of Engraving and Printing	0	0	0	0	0	5,330	0	25	0	5,305
Other agencies										
Agency for International Development	3,674	0	0	0	3,674	0	0	0	0	0
Environmental Protection Agency	172,474	71,324	3,872	19,447	77,831	14,627	11	13,486	0	1,130
Federal Communications Commission	0	0	0	0	0	1,350	0	0	1,350	0
Library of Congress	0	0	0	0	0	1,331	0	1,331	0	0
National Aeronautics and Space Administration	738,204	469,632	142,586	72,147	53,839	852,438	536,727	36,794	240,421	38,496
National Archives and Records Administration	50	0	0	0	50	70	0	50	20	0
National Science Foundation	646,618	214,984	161,596	235,037	35,001	729,092	203,990	173,742	227,173	124,187
Smithsonian Institution	5,196	105	4,752	339	0	45,665	42,509	842	2,314	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	27,927,700	1,108,158	13,690,835	686,595	10,592,189	1,849,923	1,747,309	3,014	40,927	1,703,368
Departments										
Department of Agriculture	1,670,724	1,036,424	247,058	351,833	35,409	0	530	0	0	530
Agricultural Marketing Service	6,337	6,337	0	0	0	0	0	0	0	0
Agricultural Research Service	938,402	729,005	65,373	127,374	16,650	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	546,649	287,422	141,715	108,237	9,275	0	0	0	0	0
Foreign Agricultural Service	864	864	0	0	0	0	0	0	0	0
Forest Service	168,885	3,209	39,970	116,222	9,484	0	530	0	0	530
Grain Inspection, Packers, and Stockyards Administration	7,112	7,112	0	0	0	0	0	0	0	0
Rural Business-Cooperative Service	2,475	2,475	0	0	0	0	0	0	0	0
Department of Commerce	80,175	4,003	52,024	14,651	1,454	8,043	360	0	0	360
National Institute of Standards and Technology	8,954	913	7,054	315	612	60	0	0	0	0
National Oceanic and Atmospheric Administration	71,221	3,090	44,970	14,336	842	7,983	0	0	0	0
U.S. Census Bureau	0	0	0	0	0	0	360	0	0	360
Department of Defense	591,702	1,889	178,832	24,274	288,668	98,039	46,568	1,771	840	43,957
Defense agencies and activities	266,701	840	98,908	8,964	149,352	8,637	2,025	1,185	840	0
Chemical and Biological Defense	52,484	0	1,597	0	50,887	0	0	0	0	0
Defense Advanced Research Projects Agency	186,377	0	94,666	8,369	77,195	6,147	0	0	0	0
Defense Threat Reduction Agency	2,930	0	0	0	2,930	0	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	23,340	840	2,645	595	18,340	920	2,025	1,185	840	0
Special Operations Command	1,570	0	0	0	0	1,570	0	0	0	0
Department of the Air Force	51,686	0	31,805	3,723	0	16,158	15,193	0	0	15,193
Materiel Command	51,686	0	31,805	3,723	0	16,158	15,193	0	0	15,193
Department of the Army	164,539	1,049	33,383	2,517	120,052	7,538	29,350	586	0	28,764
Department of the Navy	108,776	0	14,736	9,070	19,264	65,706	0	0	0	0
Department of Education	21,080	0	0	0	0	21,080	4,891	0	0	4,891
Department of Energy	366,514	0	227,804	0	138,710	0	0	0	0	0
Energy Efficiency and Renewable Energy	272	0	272	0	0	0	0	0	0	0
National Nuclear Security Administration	1,250	0	1,250	0	0	0	0	0	0	0
Nonproliferation and Verification	1,250	0	1,250	0	0	0	0	0	0	0
Office of Science	364,992	0	226,282	0	138,710	0	0	0	0	0
Department of Health and Human Services	23,282,905	0	11,965,359	0	9,705,700	1,611,846	1,603,663	0	32	1,603,631
Agency for Healthcare Research and Quality	166,115	0	50	0	165,008	1,057	568	0	32	536
Centers for Disease Control and Prevention	544,583	0	0	0	544,583	0	0	0	0	0
Centers for Medicare and Medicaid Services	62,394	0	0	0	0	62,394	0	0	0	0
Food and Drug Administration	143,349	0	143,349	0	0	0	0	0	0	0

TABLE 24. Federal obligations for research in life sciences and psychology, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
Health Resources and Services Administration	17,342	0	0	0	12,342	5,000	0	0	0	0
National Institutes of Health	22,349,122	0	11,821,960	0	8,983,767	1,543,395	1,603,095	0	0	1,603,095
Department of Homeland Security	199,269	5,115	186,650	1,730	5,774	0	10,482	1,062	6,549	2,871
Science and Technology Directorate	199,269	5,115	186,650	1,730	5,774	0	8,803	1,062	5,838	1,903
U.S. Coast Guard	0	0	0	0	0	0	711	0	711	0
U.S. Secret Service	0	0	0	0	0	0	968	0	0	968
Department of the Interior	185,408	0	93,021	92,372	0	15	0	0	0	0
Bureau of Reclamation	247	0	0	247	0	0	0	0	0	0
Geological Survey	174,191	0	92,321	81,870	0	0	0	0	0	0
Minerals Management Service	9,421	0	0	9,421	0	0	0	0	0	0
National Park Service <sup>c</sup>	1,549	0	700	834	0	15	0	0	0	0
Department of Transportation	13,086	0	96	55	8,314	4,621	19,845	0	19,746	99
Federal Aviation Administration	8,314	0	0	0	8,314	0	19,746	0	19,746	0
Federal Highway Administration	151	0	96	55	0	0	99	0	0	99
National Highway Traffic Safety Administration	4,621	0	0	0	0	4,621	0	0	0	0
Department of Veterans Affairs	330,760	0	0	0	330,760	0	43,473	0	0	43,473
Other agencies										
Agency for International Development	141,219	58,764	0	0	0	82,455	0	0	0	0
Environmental Protection Agency	232,908	1,024	169,550	56,073	1,082	5,179	0	0	0	0
National Aeronautics and Space Administration	190,693	939	87,428	7,363	76,318	18,645	12,902	181	9,165	3,556
National Science Foundation	571,458	0	458,887	112,571	0	0	4,595	0	4,595	0
Smithsonian Institution	49,799	0	24,126	25,673	0	0	0	0	0	0

nec = not elsewhere classified.

<sup>a</sup> Excluding environmental biology.<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.<sup>c</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies	2,814,924	1,987,816	669,174	157,934	1,123,926	15,129	202,587	44,607	144,181	717,422
Departments										
Department of Agriculture	19,824	200	19,624	0	150,585	388	129,163	0	16,924	4,110
Agricultural Research Service	1,328	0	1,328	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	54,230	0	38,746	0	15,484	0
Economic Research Service	0	0	0	0	75,004	0	75,004	0	0	0
Forest Service	11,981	200	11,781	0	19,681	388	13,743	0	1,440	4,110
National Agricultural Statistics Service	6,515	0	6,515	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	1,670	0	1,670	0	0	0
Department of Commerce	75,619	65,094	6,768	3,757	10,296	0	1,242	1,124	562	7,368
Economic Development Administration	0	0	0	0	233	0	233	0	0	0
National Institute of Standards and Technology	68,715	60,848	4,110	3,757	46	0	46	0	0	0
National Oceanic and Atmospheric Administration	3,303	2,202	1,101	0	7,976	0	963	1,124	562	5,327
U.S. Census Bureau	3,601	2,044	1,557	0	2,041	0	0	0	0	2,041
Department of Defense	843,843	654,975	97,252	91,616	15,718	580	1,512	3,275	391	9,960
Defense agencies and activities	464,610	395,516	44,499	24,595	0	0	0	0	0	0
Defense Advanced Research Projects Agency	413,221	362,099	39,069	12,053	0	0	0	0	0	0
Defense Threat Reduction Agency	40,006	27,464	0	12,542	0	0	0	0	0	0
Office of the Secretary of Defense <sup>a</sup>	11,383	5,953	5,430	0	0	0	0	0	0	0
Department of the Air Force	94,709	57,797	17,966	18,946	0	0	0	0	0	0
Materiel Command	94,709	57,797	17,966	18,946	0	0	0	0	0	0
Department of the Army	217,915	148,242	21,897	47,776	15,718	580	1,512	3,275	391	9,960
Department of the Navy	66,609	53,420	12,890	299	0	0	0	0	0	0
Department of Education	0	0	0	0	176,195	0	0	0	0	176,195
Department of Energy	830,005	644,834	180,411	4,760	0	0	0	0	0	0
National Nuclear Security Administration	607,711	600,147	2,804	4,760	0	0	0	0	0	0
Defense Programs	599,772	599,772	0	0	0	0	0	0	0	0
Nonproliferation and Verification	7,939	375	2,804	4,760	0	0	0	0	0	0
Office of Science	222,294	44,687	177,607	0	0	0	0	0	0	0
Department of Health and Human Services	181,777	16,370	152,302	13,105	313,643	27	13,776	53	599	299,188
Administration for Children and Families	0	0	0	0	14,445	0	0	0	0	14,445
Administration on Aging	0	0	0	0	2,931	0	0	0	0	2,931
Agency for Healthcare Research and Quality	29,475	16,370	0	13,105	26,257	27	13,776	53	599	11,802
National Institutes of Health	152,302	0	152,302	0	243,167	0	0	0	0	243,167
Office of the Secretary	0	0	0	0	26,843	0	0	0	0	26,843

TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	26,843	0	0	0	0	26,843
Department of Homeland Security	23,557	8,867	5,211	9,479	32,702	0	4,615	22,588	4,436	1,063
Science and Technology Directorate	22,017	8,867	5,211	7,939	32,702	0	4,615	22,588	4,436	1,063
U.S. Coast Guard	1,540	0	0	1,540	0	0	0	0	0	0
Department of Housing and Urban Development	119	0	0	119	9,656	0	8,705	34	386	531
Department of the Interior	11,240	9,007	2,233	0	4,607	0	1,030	0	2,221	1,356
Geological Survey	11,240	9,007	2,233	0	2,628	0	0	0	1,496	1,132
Minerals Management Service	0	0	0	0	1,787	0	1,030	0	725	32
National Park Service <sup>b</sup>	0	0	0	0	192	0	0	0	0	192
Department of Justice	0	0	0	0	43,972	0	0	0	8,945	35,027
Bureau of Prisons	0	0	0	0	2,744	0	0	0	0	2,744
Office of Justice Programs	0	0	0	0	41,228	0	0	0	8,945	32,283
Department of Labor	0	0	0	0	30,136	0	7,336	0	0	22,800
Bureau of Labor Statistics	0	0	0	0	22,800	0	0	0	0	22,800
Employee Benefits Security Administration	0	0	0	0	2,622	0	2,622	0	0	0
Employment and Training Administration	0	0	0	0	660	0	660	0	0	0
Occupational Safety and Health Administration	0	0	0	0	3,500	0	3,500	0	0	0
Office of the Secretary	0	0	0	0	339	0	339	0	0	0
Pension Benefit Guaranty Corporation	0	0	0	0	215	0	215	0	0	0
Department of State	0	0	0	0	4,161	0	666	707	291	2,497
Department of Transportation	12,536	9,082	0	3,454	15,875	0	180	2,897	942	11,856
Federal Highway Administration	4,970	1,516	0	3,454	4,396	0	180	2,897	942	377
Federal Transit Administration	0	0	0	0	3,559	0	0	0	0	3,559
National Highway Traffic Safety Administration	6,992	6,992	0	0	7,920	0	0	0	0	7,920
Pipeline and Hazardous Materials Safety Administration	574	574	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	51,432	0	6,449	5,021	31,227	8,735
Appalachian Regional Commission	0	0	0	0	985	0	492	0	0	493
Environmental Protection Agency	18,073	7,126	9,810	1,137	2,412	0	0	0	0	2,412
Federal Communications Commission	375	375	0	0	3,133	0	3,133	0	0	0
Federal Trade Commission	0	0	0	0	1,606	0	1,606	0	0	0
Library of Congress	2,008	2,008	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	58,416	25,365	2,544	30,507	554	0	0	0	200	354



TABLE 25. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
National Science Foundation	737,532	544,513	193,019	0	171,102	10,979	22,682	8,908	8,773	119,760
Smithsonian Institution	0	0	0	0	17,314	3,155	0	0	442	13,717
Social Security Administration	0	0	0	0	67,842	0	0	0	67,842	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies	8,678,730	1,229,172	476,349	294,594	352,675	1,035,477	298,155	1,249,963	3,742,345
Departments									
Department of Agriculture	66,597	0	0	8,571	6,325	903	4,421	0	46,377
Agricultural Research Service	9,193	0	0	4,597	1,430	817	1,021	0	1,328
Cooperative State Research, Education, and Extension Service	15,878	0	0	0	0	0	0	0	15,878
Forest Service	41,526	0	0	3,974	4,895	86	3,400	0	29,171
Department of Commerce	151,913	0	0	3,884	29,653	50,555	2,575	33,999	31,247
National Institute of Standards and Technology	139,569	0	0	3,884	26,282	41,673	2,575	33,999	31,156
National Oceanic and Atmospheric Administration	5,664	0	0	0	3,371	2,202	0	0	91
National Telecommunications and Information Administration	6,680	0	0	0	0	6,680	0	0	0
Department of Defense	3,043,710	427,334	119,458	38,792	33,636	753,176	229,933	411,773	1,029,608
Defense agencies and activities	718,406	66,107	0	3,862	1,598	154,998	12,467	122,495	356,879
Defense Advanced Research Projects Agency	505,211	65,600	0	2,241	0	127,392	9,223	119,222	181,533
Defense Threat Reduction Agency	133,968	0	0	0	0	13,367	0	0	120,601
Office of the Secretary of Defense <sup>a</sup>	55,064	507	0	1,621	1,598	14,239	3,244	3,273	30,582
Special Operations Command	24,163	0	0	0	0	0	0	0	24,163
Department of the Air Force	835,991	262,128	110,486	11,574	8,548	120,714	25,689	109,727	187,125
Materiel Command	835,991	262,128	110,486	11,574	8,548	120,714	25,689	109,727	187,125
Department of the Army	791,849	58,018	576	23,356	23,490	275,162	132,320	92,529	186,398
Department of the Navy	697,464	41,081	8,396	0	0	202,302	59,457	87,022	299,206
Department of Education	13,396	0	0	0	0	0	0	0	13,396
Department of Energy	1,868,002	0	800	156,412	43,525	132,709	2,028	525,337	1,007,191
Bonneville Power Administration	2,152	0	0	0	0	1,610	0	0	542
Electricity Delivery and Energy Restoration	93,449	0	0	0	0	93,449	0	0	0
Energy Efficiency and Renewable Energy	210,171	0	0	0	41,720	27,700	244	274	140,233
Fossil Energy	157,679	0	0	156,412	1,267	0	0	0	0
National Nuclear Security Administration	795,758	0	800	0	538	9,950	100	5,426	778,944
Defense Programs	759,022	0	0	0	0	0	0	0	759,022
Nonproliferation and Verification	36,736	0	800	0	538	9,950	100	5,426	19,922
Nuclear Energy	87,472	0	0	0	0	0	0	0	87,472
Office of Science	521,321	0	0	0	0	0	1,684	519,637	0
Department of Health and Human Services	931,728	0	0	0	0	0	0	70,630	861,098
National Institutes of Health	931,728	0	0	0	0	0	0	70,630	861,098
Department of Homeland Security	130,692	1,730	0	1,433	8,211	2,542	2,513	2,525	111,738
Science and Technology Directorate	126,630	1,730	0	1,433	7,971	1,062	1,728	2,125	110,581
U.S. Coast Guard	4,062	0	0	0	240	1,480	785	400	1,157

TABLE 26. Federal obligations for research in engineering, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
Department of Housing and Urban Development	949	0	0	0	0	0	0	0	949
Department of the Interior	10,729	0	0	1,500	5,032	988	955	538	1,716
Bureau of Reclamation	2,560	0	0	710	1,079	247	339	185	0
Geological Survey	4,694	0	0	0	3,953	741	0	0	0
Minerals Management Service	3,475	0	0	790	0	0	616	353	1,716
Department of Transportation	381,757	0	0	0	145,356	0	37,977	58,996	139,428
Federal Aviation Administration	70,178	0	0	0	15,823	0	0	54,355	0
Federal Highway Administration	231,536	0	0	0	129,533	0	0	4,641	97,362
Federal Motor Carrier Safety Administration	499	0	0	0	0	0	0	0	499
Federal Railroad Administration	40,823	0	0	0	0	0	0	0	40,823
National Highway Traffic Safety Administration	37,977	0	0	0	0	0	37,977	0	0
Research and Innovative Technology Administration	744	0	0	0	0	0	0	0	744
Department of Veterans Affairs	17,647	0	0	0	0	0	0	0	17,647
Other agencies									
Broadcasting Board of Governors	218	0	0	0	0	0	0	0	218
Environmental Protection Agency	58,705	0	0	19,420	3,139	0	893	666	34,587
Federal Communications Commission	2,265	0	0	0	0	2,265	0	0	0
National Aeronautics and Space Administration	1,263,222	800,108	356,091	2,579	223	18,754	12,577	13,702	59,188
National Science Foundation	665,815	0	0	62,003	77,575	73,585	4,283	131,797	316,572
Nuclear Regulatory Commission	71,385	0	0	0	0	0	0	0	71,385

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	26,584,592	4,763,604	1,858,900	220,430	13,657,604	2,096,836	2,867,435	755,822	152,742	211,219
Departments										
Department of Agriculture	945,797	639,712	166	0	292,892	0	9,991	0	1,199	1,837
Agricultural Research Service	556,121	495,785	0	0	54,280	0	4,390	0	124	1,542
Cooperative State Research, Education, and Extension Service	254,175	17,021	0	0	231,712	0	4,921	0	521	0
Economic Research Service	7,500	7,500	0	0	0	0	0	0	0	0
Foreign Agricultural Service	242	60	0	0	97	0	18	0	0	67
Forest Service	125,870	117,457	166	0	6,803	0	662	0	554	228
National Agricultural Statistics Service	1,889	1,889	0	0	0	0	0	0	0	0
Department of Commerce	72,834	63,312	3,300	0	5,923	4	58	229	0	8
National Institute of Standards and Technology	72,834	63,312	3,300	0	5,923	4	58	229	0	8
Department of Defense	1,304,189	330,158	160,011	1,305	690,141	2,468	93,112	3,762	0	23,232
Defense agencies and activities	160,473	22,919	31,689	1,145	98,127	1,309	2,929	852	0	1,503
Chemical and Biological Defense	21,899	15,187	927	387	5,179	0	0	0	0	219
Defense Advanced Research Projects Agency	105,905	6,646	30,762	758	62,195	1,309	2,099	852	0	1,284
Office of the Secretary of Defense <sup>b</sup>	32,669	1,086	0	0	30,753	0	830	0	0	0
Department of the Air Force	350,641	36,633	43,838	0	187,940	120	68,118	30	0	13,962
Materiel Command	350,641	36,633	43,838	0	187,940	120	68,118	30	0	13,962
Department of the Army	348,820	124,397	53,415	160	161,681	429	6,229	1,747	0	762
Department of the Navy	444,255	146,209	31,069	0	242,393	610	15,836	1,133	0	7,005
Department of Education	2,564	106	0	0	1,986	0	472	0	0	0
Department of Energy	2,834,560	23,110	62,934	50,670	632,483	1,270,334	75,022	717,985	0	2,022
Energy Efficiency and Renewable Energy	1,157	452	0	211	119	107	33	235	0	0
Fossil Energy	7,320	65	0	0	7,255	0	0	0	0	0
National Nuclear Security Administration	7,795	1,536	0	1,053	796	2,898	0	1,512	0	0
Nonproliferation and Verification	7,795	1,536	0	1,053	796	2,898	0	1,512	0	0
Office of Science	2,818,288	21,057	62,934	49,406	624,313	1,267,329	74,989	716,238	0	2,022
Department of Health and Human Services	15,539,560	3,002,841	979,106	165,954	8,729,756	41,097	2,367,544	22,895	60,659	169,708
Health Resources and Services Administration	2,584	2,584	0	0	0	0	0	0	0	0
National Institutes of Health	15,536,976	3,000,257	979,106	165,954	8,729,756	41,097	2,367,544	22,895	60,659	169,708
Department of Homeland Security	79,847	27,455	25,309	2,398	1,129	12,902	2,319	6,890	1,445	0
Science and Technology Directorate	79,847	27,455	25,309	2,398	1,129	12,902	2,319	6,890	1,445	0
Department of the Interior	42,088	37,602	69	0	2,467	0	0	0	1,950	0
Geological Survey	42,088	37,602	69	0	2,467	0	0	0	1,950	0
Department of Justice	18,089	1,708	2,349	59	11,666	0	2,296	0	11	0

TABLE 27. Federal obligations for basic research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Office of Justice Programs	18,089	1,708	2,349	59	11,666	0	2,296	0	11	0
Department of Labor	13,600	700	0	0	12,700	0	200	0	0	0
Bureau of Labor Statistics	13,600	700	0	0	12,700	0	200	0	0	0
Department of Transportation	1,574	1,574	0	0	0	0	0	0	0	0
Federal Highway Administration	1,574	1,574	0	0	0	0	0	0	0	0
Department of the Treasury	270	270	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	270	270	0	0	0	0	0	0	0	0
Department of Veterans Affairs	181,093	181,093	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	18,000	3,240	0	0	180	0	14,580	0	0	0
Environmental Protection Agency	104,308	83,169	3,730	0	10,842	0	5,008	0	1,180	379
National Aeronautics and Space Administration	1,803,208	215,712	551,431	44	347,943	545,336	60,752	2,473	77,039	2,478
National Science Foundation	3,504,011	32,842	70,495	0	2,917,496	224,695	236,081	1,588	9,259	11,555
Smithsonian Institution	119,000	119,000	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2007

(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	27,476,511	4,888,721	1,978,044	235,605	13,930,479	2,324,579	2,839,067	916,266	152,193	211,557
Departments										
Department of Agriculture	963,843	625,051	166	0	327,398	0	8,588	0	1,188	1,452
Agricultural Research Service	524,197	470,260	0	0	49,394	0	3,293	0	93	1,157
Cooperative State Research, Education, and Extension Service	295,059	18,869	0	0	271,104	0	4,565	0	521	0
Economic Research Service	7,519	7,519	0	0	0	0	0	0	0	0
Foreign Agricultural Service	242	60	0	0	97	0	18	0	0	67
Forest Service	134,890	126,407	166	0	6,803	0	712	0	574	228
National Agricultural Statistics Service	1,936	1,936	0	0	0	0	0	0	0	0
Department of Commerce	96,280	80,966	4,323	0	10,602	4	148	229	0	8
National Institute of Standards and Technology	96,280	80,966	4,323	0	10,602	4	148	229	0	8
Department of Defense	1,520,512	416,531	177,047	7,471	785,081	3,441	102,623	2,701	0	25,617
Defense agencies and activities	239,320	29,246	49,627	7,306	142,947	2,370	4,197	1,367	0	2,260
Chemical and Biological Defense	22,421	17,910	280	745	3,286	0	0	0	0	200
Defense Advanced Research Projects Agency	169,888	10,661	49,347	1,216	99,770	2,100	3,367	1,367	0	2,060
Defense Threat Reduction Agency	8,966	1	0	5,345	3,350	270	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	38,045	674	0	0	36,541	0	830	0	0	0
Department of the Air Force	394,850	71,047	27,677	0	207,800	0	73,645	0	0	14,681
Materiel Command	394,850	71,047	27,677	0	207,800	0	73,645	0	0	14,681
Department of the Army	383,241	146,806	64,960	165	162,969	388	7,053	66	0	834
Department of the Navy	503,101	169,432	34,783	0	271,365	683	17,728	1,268	0	7,842
Department of Education	4,872	213	0	0	3,747	0	912	0	0	0
Department of Energy	3,276,152	66,070	147,286	57,138	628,584	1,482,295	19,000	874,492	0	1,287
Bonneville Power Administration	40	40	0	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	558	217	0	102	57	52	16	114	0	0
Fossil Energy	7,445	72	0	0	7,373	0	0	0	0	0
National Nuclear Security Administration	11,063	5,590	0	928	0	3,120	0	1,425	0	0
Nonproliferation and Verification	11,063	5,590	0	928	0	3,120	0	1,425	0	0
Office of Science	3,257,046	60,151	147,286	56,108	621,154	1,479,123	18,984	872,953	0	1,287
Department of Health and Human Services	15,533,890	3,000,848	978,819	165,906	8,727,194	41,085	2,366,850	22,888	60,642	169,658
Health Resources and Services Administration	2,500	2,500	0	0	0	0	0	0	0	0
National Institutes of Health	15,531,390	2,998,348	978,819	165,906	8,727,194	41,085	2,366,850	22,888	60,642	169,658
Department of Homeland Security	103,486	19,375	35,427	4,967	8,721	16,555	6,486	11,770	178	7
Science and Technology Directorate	103,486	19,375	35,427	4,967	8,721	16,555	6,486	11,770	178	7
Department of the Interior	41,884	37,385	78	0	2,471	0	0	0	1,950	0
Geological Survey	41,884	37,385	78	0	2,471	0	0	0	1,950	0

TABLE 28. Preliminary federal obligations for basic research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of Justice	17,995	1,710	2,200	75	11,500	0	2,500	0	10	0
Office of Justice Programs	17,995	1,710	2,200	75	11,500	0	2,500	0	10	0
Department of Labor	14,300	800	0	0	10,100	0	3,400	0	0	0
Bureau of Labor Statistics	14,300	800	0	0	10,100	0	3,400	0	0	0
Department of the Treasury	382	382	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	382	382	0	0	0	0	0	0	0	0
Department of Veterans Affairs	181,964	181,964	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	18,000	3,240	0	0	180	0	14,580	0	0	0
Environmental Protection Agency	93,133	74,255	3,331	0	9,683	0	4,472	0	1,054	338
National Aeronautics and Space Administration	1,809,620	217,513	555,491	48	347,684	545,719	62,095	2,522	77,468	1,080
National Science Foundation	3,672,198	34,418	73,876	0	3,057,534	235,480	247,413	1,664	9,703	12,110
Smithsonian Institution	128,000	128,000	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 29. Preliminary federal obligations for basic research, by agency and performer: FY 2008  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	27,720,659	4,911,220	1,974,877	229,765	14,002,454	2,408,032	2,857,995	971,143	153,589	211,584
Departments										
Department of Agriculture	860,384	615,854	166	0	233,185	0	8,589	0	1,188	1,402
Agricultural Research Service	500,543	479,700	0	0	16,300	0	3,293	0	93	1,157
Cooperative State Research, Education, and Extension Service	232,501	17,429	0	0	209,985	0	4,566	0	521	0
Economic Research Service	8,254	8,254	0	0	0	0	0	0	0	0
Foreign Agricultural Service	242	60	0	0	97	0	18	0	0	67
Forest Service	116,850	108,417	166	0	6,803	0	712	0	574	178
National Agricultural Statistics Service	1,994	1,994	0	0	0	0	0	0	0	0
Department of Commerce	109,370	91,434	5,308	0	12,058	4	329	229	0	8
National Institute of Standards and Technology	109,370	91,434	5,308	0	12,058	4	329	229	0	8
Department of Defense	1,481,238	433,098	163,526	6,476	748,709	3,146	97,907	2,612	0	25,764
Defense agencies and activities	287,908	64,207	49,180	6,426	157,703	2,231	4,141	1,344	0	2,676
Chemical and Biological Defense	65,090	53,374	650	1,954	8,462	0	0	0	0	650
Defense Advanced Research Projects Agency	167,072	10,484	48,530	1,196	98,116	2,065	3,311	1,344	0	2,026
Defense Threat Reduction Agency	5,496	1	0	3,276	2,053	166	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	50,250	348	0	0	49,072	0	830	0	0	0
Department of the Air Force	377,119	64,704	26,223	0	202,180	0	70,050	0	0	13,962
Matériel Command	377,119	64,704	26,223	0	202,180	0	70,050	0	0	13,962
Department of the Army	340,696	143,290	51,326	50	136,955	271	7,000	72	0	1,732
Department of the Navy	475,515	160,897	36,797	0	251,871	644	16,716	1,196	0	7,394
Department of Education	5,050	281	0	0	3,815	0	954	0	0	0
Department of Energy	3,411,214	78,878	155,333	54,241	620,509	1,545,271	23,679	932,436	0	867
Bonneville Power Administration	60	60	0	0	0	0	0	0	0	0
Energy Efficiency and Renewable Energy	843	329	0	153	87	78	24	172	0	0
Fossil Energy	8,354	75	0	0	8,279	0	0	0	0	0
National Nuclear Security Administration	11,063	5,590	0	928	0	3,120	0	1,425	0	0
Nonproliferation and Verification	11,063	5,590	0	928	0	3,120	0	1,425	0	0
Office of Science	3,390,894	72,824	155,333	53,160	612,143	1,542,073	23,655	930,839	0	867
Department of Health and Human Services	15,473,295	2,989,153	975,000	165,258	8,693,145	40,924	2,357,615	22,799	60,405	168,996
Health Resources and Services Administration	2,500	2,500	0	0	0	0	0	0	0	0
National Institutes of Health	15,470,795	2,986,653	975,000	165,258	8,693,145	40,924	2,357,615	22,799	60,405	168,996
Department of Homeland Security	76,358	14,296	26,140	3,665	6,435	12,215	4,786	8,685	131	5
Science and Technology Directorate	76,358	14,296	26,140	3,665	6,435	12,215	4,786	8,685	131	5
Department of the Interior	38,773	34,279	75	0	2,469	0	0	0	1,950	0



TABLE 29. Preliminary federal obligations for basic research, by agency and performer: FY 2008  
(Dollars in thousands)

Agency	Total		Extramural							
			United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Geological Survey	38,773	34,279	75	0	2,469	0	0	0	1,950	0
Department of Justice	15,445	1,710	2,500	75	10,150	0	1,000	0	10	0
Office of Justice Programs	15,445	1,710	2,500	75	10,150	0	1,000	0	10	0
Department of Labor	14,500	1,000	0	0	0	0	13,500	0	0	0
Bureau of Labor Statistics	14,500	1,000	0	0	0	0	13,500	0	0	0
Department of the Treasury	420	420	0	0	0	0	0	0	0	0
Bureau of Engraving and Printing	420	420	0	0	0	0	0	0	0	0
Department of Veterans Affairs	180,654	180,654	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	18,000	3,240	0	0	180	0	14,580	0	0	0
Environmental Protection Agency	91,307	72,799	3,266	0	9,493	0	4,385	0	1,033	331
National Aeronautics and Space Administration	1,831,233	220,845	563,546	50	350,641	551,420	62,694	2,580	78,363	1,094
National Science Foundation	3,977,418	37,279	80,017	0	3,311,665	255,052	267,977	1,802	10,509	13,117
Smithsonian Institution	136,000	136,000	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 30. Federal obligations for basic research, by detailed field of science and engineering: FY 2006–08  
(Dollars in thousands)

Field	2006	Preliminary	
		2007	2008
All fields	26,584,592	27,476,511	27,720,659
Environmental sciences	1,849,488	1,897,854	1,957,153
Atmospheric sciences	666,256	NA	NA
Geological sciences	444,557	NA	NA
Oceanography	416,457	NA	NA
Environmental sciences, nec	322,218	NA	NA
Life sciences	14,934,420	14,793,093	14,732,225
Agricultural sciences	514,299	NA	NA
Biological sciences (excluding environmental biology)	7,699,759	NA	NA
Environmental biology	344,327	NA	NA
Medical sciences	5,454,361	NA	NA
Life sciences, nec	921,674	NA	NA
Mathematics and computer sciences	1,208,217	1,317,540	1,394,488
Computer sciences	670,927	NA	NA
Mathematics	518,640	NA	NA
Mathematics and computer sciences, nec	18,650	NA	NA
Physical sciences	3,515,545	3,800,864	3,939,964
Astronomy	686,945	NA	NA
Chemistry	720,676	NA	NA
Physics	1,910,815	NA	NA
Physical sciences, nec	197,109	NA	NA
Psychology	944,867	952,591	948,591
Biological aspects	668	NA	NA
Social aspects	4,892	NA	NA
Psychological sciences, nec	939,307	NA	NA
Social sciences	381,007	393,275	397,326
Anthropology	14,147	NA	NA
Economics	46,286	NA	NA
Political science	11,045	NA	NA
Sociology	19,241	NA	NA
Social sciences, nec	290,288	NA	NA
Other sciences, nec	1,386,468	1,640,919	1,639,704
Engineering	2,364,580	2,680,375	2,711,208
Aeronautical engineering	242,655	NA	NA
Astronautical engineering	57,796	NA	NA
Chemical engineering	67,616	NA	NA
Civil engineering	67,437	NA	NA
Electrical engineering	205,143	NA	NA
Mechanical engineering	70,456	NA	NA
Metallurgy and materials engineering	811,356	NA	NA
Engineering, nec	842,121	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	26,584,592	1,849,488	14,934,420	1,208,217	3,515,545	944,867	381,007	1,386,468	2,364,580
Departments									
Department of Agriculture	945,797	9,551	815,438	4,667	52,434	173	35,156	0	28,378
Agricultural Research Service	556,121	2,447	510,908	723	37,038	0	0	0	5,005
Cooperative State Research, Education, and Extension Service	254,175	4,316	215,382	0	6,851	0	21,369	0	6,257
Economic Research Service	7,500	0	0	0	0	0	7,500	0	0
Foreign Agricultural Service	242	0	242	0	0	0	0	0	0
Forest Service	125,870	2,788	88,906	2,055	8,545	173	6,287	0	17,116
National Agricultural Statistics Service	1,889	0	0	1,889	0	0	0	0	0
Department of Commerce	72,834	200	4,646	519	63,705	0	0	9	3,755
National Institute of Standards and Technology	72,834	200	4,646	519	63,705	0	0	9	3,755
Department of Defense	1,304,189	160,296	172,737	194,923	194,036	20,349	156	135,379	426,313
Defense agencies and activities	160,473	199	49,996	28,281	14,483	345	0	173	66,996
Chemical and Biological Defense	21,899	0	15,329	0	6,570	0	0	0	0
Defense Advanced Research Projects Agency	105,905	0	32,347	21,942	4,042	0	0	0	47,574
Office of the Secretary of Defense <sup>a</sup>	32,669	199	2,320	6,339	3,871	345	0	173	19,422
Department of the Air Force	350,641	0	14,650	44,800	41,396	6,487	0	124,553	118,755
Materiel Command	350,641	0	14,650	44,800	41,396	6,487	0	124,553	118,755
Department of the Army	348,820	10,402	49,901	85,766	73,708	13,517	156	10,653	104,717
Department of the Navy	444,255	149,695	58,190	36,076	64,449	0	0	0	135,845
Department of Education	2,564	0	0	0	0	0	2,564	0	0
Department of Energy	2,834,560	232,057	365,514	222,934	1,488,158	0	0	580	525,317
Energy Efficiency and Renewable Energy	1,157	0	272	0	885	0	0	0	0
Fossil Energy	7,320	0	0	0	7,320	0	0	0	0
National Nuclear Security Administration	7,795	0	250	640	2,329	0	0	580	3,996
Nonproliferation and Verification	7,795	0	250	640	2,329	0	0	580	3,996
Office of Science	2,818,288	232,057	364,992	222,294	1,477,624	0	0	0	521,321
Department of Health and Human Services	15,539,560	240,280	12,599,381	85,843	219,981	903,564	137,058	828,296	525,157
Health Resources and Services Administration	2,584	0	2,584	0	0	0	0	0	0
National Institutes of Health	15,536,976	240,280	12,596,797	85,843	219,981	903,564	137,058	828,296	525,157
Department of Homeland Security	79,847	0	26,716	2,952	15,936	1,180	4,385	11,702	16,976
Science and Technology Directorate	79,847	0	26,716	2,952	15,936	1,180	4,385	11,702	16,976
Department of the Interior	42,088	30,805	10,979	230	22	0	26	0	26
Geological Survey	42,088	30,805	10,979	230	22	0	26	0	26
Department of Justice	18,089	0	0	0	0	0	18,089	0	0
Office of Justice Programs	18,089	0	0	0	0	0	18,089	0	0

TABLE 31. Federal obligations for basic research, by agency and field of science and engineering: FY 2006

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of Labor	13,600	0	0	0	0	0	13,600	0	0
Bureau of Labor Statistics	13,600	0	0	0	0	0	13,600	0	0
Department of Transportation	1,574	0	0	0	0	0	0	0	1,574
Federal Highway Administration	1,574	0	0	0	0	0	0	0	1,574
Department of the Treasury	270	0	0	0	270	0	0	0	0
Bureau of Engraving and Printing	270	0	0	0	270	0	0	0	0
Department of Veterans Affairs	181,093	0	162,984	0	0	12,677	0	0	5,432
Other agencies									
Agency for International Development	18,000	0	0	0	0	0	0	18,000	0
Environmental Protection Agency	104,308	14,523	77,226	4,245	3,393	0	135	0	4,786
National Aeronautics and Space Administration	1,803,208	512,034	79,966	18,065	709,506	3,173	554	146,036	333,874
National Science Foundation	3,504,011	644,546	569,034	673,839	722,439	3,751	151,970	245,440	492,992
Smithsonian Institution	119,000	5,196	49,799	0	45,665	0	17,314	1,026	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 32. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	27,476,511	1,897,854	14,793,093	1,317,540	3,800,864	952,591	393,275	1,640,919	2,680,375
Departments									
Department of Agriculture	963,843	8,045	822,138	4,819	54,065	185	40,325	1,066	33,200
Agricultural Research Service	524,197	2,306	481,580	681	34,912	0	0	0	4,718
Cooperative State Research, Education, and Extension Service	295,059	2,751	245,038	0	9,995	0	27,134	0	10,141
Economic Research Service	7,519	0	0	0	0	0	7,519	0	0
Foreign Agricultural Service	242	0	242	0	0	0	0	0	0
Forest Service	134,890	2,988	95,278	2,202	9,158	185	5,672	1,066	18,341
National Agricultural Statistics Service	1,936	0	0	1,936	0	0	0	0	0
Department of Commerce	96,280	198	6,004	1,844	75,596	0	0	7	12,631
National Institute of Standards and Technology	96,280	198	6,004	1,844	75,596	0	0	7	12,631
Department of Defense	1,520,512	178,784	203,418	185,069	222,681	28,342	143	200,115	501,960
Defense agencies and activities	239,320	342	71,082	42,870	16,078	592	0	9,070	99,286
Chemical and Biological Defense	22,421	0	16,816	0	5,605	0	0	0	0
Defense Advanced Research Projects Agency	169,888	0	51,890	35,198	6,484	0	0	0	76,316
Defense Threat Reduction Agency	8,966	0	0	0	0	0	0	8,966	0
Office of the Secretary of Defense <sup>a</sup>	38,045	342	2,376	7,672	3,989	592	0	104	22,970
Department of the Air Force	394,850	0	14,681	19,970	55,092	14,681	0	168,831	121,595
Materiel Command	394,850	0	14,681	19,970	55,092	14,681	0	168,831	121,595
Department of the Army	383,241	10,855	52,507	81,841	79,359	13,069	143	16,468	128,999
Department of the Navy	503,101	167,587	65,148	40,388	72,152	0	0	5,746	152,080
Department of Education	4,872	0	0	0	0	0	4,872	0	0
Department of Energy	3,276,152	231,990	303,331	304,207	1,701,958	0	0	5,581	729,085
Bonneville Power Administration	40	0	0	0	0	0	0	40	0
Energy Efficiency and Renewable Energy	558	0	131	0	427	0	0	0	0
Fossil Energy	7,445	0	0	0	7,445	0	0	0	0
National Nuclear Security Administration	11,063	0	0	350	2,288	0	0	5,541	2,884
Nonproliferation and Verification	11,063	0	0	350	2,288	0	0	5,541	2,884
Office of Science	3,257,046	231,990	303,200	303,857	1,691,798	0	0	0	726,201
Department of Health and Human Services	15,533,890	240,194	12,594,766	85,812	219,902	903,240	137,009	827,998	524,969
Health Resources and Services Administration	2,500	0	2,500	0	0	0	0	0	0
National Institutes of Health	15,531,390	240,194	12,592,266	85,812	219,902	903,240	137,009	827,998	524,969
Department of Homeland Security	103,486	0	53,186	7,635	4,886	969	0	19,513	17,297
Science and Technology Directorate	103,486	0	53,186	7,635	4,886	969	0	19,513	17,297
Department of the Interior	41,884	30,700	10,837	227	0	0	60	0	60
Geological Survey	41,884	30,700	10,837	227	0	0	60	0	60
Department of Justice	17,995	0	0	0	0	0	17,995	0	0

TABLE 32. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Office of Justice Programs	17,995	0	0	0	0	0	17,995	0	0
Department of Labor	14,300	0	0	0	0	0	14,300	0	0
Bureau of Labor Statistics	14,300	0	0	0	0	0	14,300	0	0
Department of the Treasury	382	0	0	0	375	0	0	7	0
Bureau of Engraving and Printing	382	0	0	0	375	0	0	7	0
Department of Veterans Affairs	181,964	0	0	0	0	12,737	0	163,767	5,460
Other agencies									
Agency for International Development	18,000	0	0	0	0	0	0	18,000	0
Environmental Protection Agency	93,133	12,967	68,953	3,790	3,029	0	121	0	4,273
National Aeronautics and Space Administration	1,809,620	513,949	80,281	17,954	712,299	3,186	557	146,609	334,785
National Science Foundation	3,672,198	675,483	596,347	706,183	757,116	3,932	159,264	257,218	516,655
Smithsonian Institution	128,000	5,544	53,832	0	48,957	0	18,629	1,038	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 33. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	27,720,659	1,957,153	14,732,225	1,394,488	3,939,964	948,591	397,326	1,639,704	2,711,208
Departments									
Department of Agriculture	860,384	6,949	738,639	4,553	48,855	160	32,471	923	27,834
Agricultural Research Service	500,543	2,202	459,849	651	33,336	0	0	0	4,505
Cooperative State Research, Education, and Extension Service	232,501	2,159	196,011	0	7,586	0	19,304	0	7,441
Economic Research Service	8,254	0	0	0	0	0	8,254	0	0
Foreign Agricultural Service	242	0	242	0	0	0	0	0	0
Forest Service	116,850	2,588	82,537	1,908	7,933	160	4,913	923	15,888
National Agricultural Statistics Service	1,994	0	0	1,994	0	0	0	0	0
Department of Commerce	109,370	215	6,572	2,505	83,824	0	0	8	16,246
National Institute of Standards and Technology	109,370	215	6,572	2,505	83,824	0	0	8	16,246
Department of Defense	1,481,238	169,856	220,013	181,798	219,231	27,872	156	185,405	476,907
Defense agencies and activities	287,908	782	97,387	47,117	32,860	1,353	0	5,574	102,835
Chemical and Biological Defense	65,090	0	43,610	0	21,480	0	0	0	0
Defense Advanced Research Projects Agency	167,072	0	51,030	34,615	6,376	0	0	0	75,051
Defense Threat Reduction Agency	5,496	0	0	0	0	0	0	5,496	0
Office of the Secretary of Defense <sup>a</sup>	50,250	782	2,747	12,502	5,004	1,353	0	78	27,784
Department of the Air Force	377,119	0	13,962	19,052	52,186	13,962	0	160,563	117,394
Materiel Command	377,119	0	13,962	19,052	52,186	13,962	0	160,563	117,394
Department of the Army	340,696	11,056	47,240	77,547	66,153	12,557	156	12,710	113,277
Department of the Navy	475,515	158,018	61,424	38,082	68,032	0	0	6,558	143,401
Department of Education	5,050	0	0	0	0	0	5,050	0	0
Department of Energy	3,411,214	243,221	319,358	327,548	1,769,052	0	0	5,541	746,494
Bonneville Power Administration	60	0	0	0	60	0	0	0	0
Energy Efficiency and Renewable Energy	843	0	198	0	645	0	0	0	0
Fossil Energy	8,354	0	0	0	8,354	0	0	0	0
National Nuclear Security Administration	11,063	0	0	350	2,288	0	0	5,541	2,884
Nonproliferation and Verification	11,063	0	0	350	2,288	0	0	5,541	2,884
Office of Science	3,390,894	243,221	319,160	327,198	1,757,705	0	0	0	743,610
Department of Health and Human Services	15,473,295	239,256	12,545,638	85,477	219,044	899,716	136,475	824,768	522,921
Health Resources and Services Administration	2,500	0	2,500	0	0	0	0	0	0
National Institutes of Health	15,470,795	239,256	12,543,138	85,477	219,044	899,716	136,475	824,768	522,921
Department of Homeland Security	76,358	0	39,243	5,634	3,606	715	0	14,397	12,763
Science and Technology Directorate	76,358	0	39,243	5,634	3,606	715	0	14,397	12,763
Department of the Interior	38,773	27,290	11,168	211	0	0	52	0	52
Geological Survey	38,773	27,290	11,168	211	0	0	52	0	52
Department of Justice	15,445	0	0	0	0	0	15,445	0	0

TABLE 33. Preliminary federal obligations for basic research, by agency and field of science and engineering: FY 2008

(Dollars in thousands)

Agency	Total	Environmental	Life	Mathematics	Physical	Psychology	Social	Other	Engineering
		sciences	sciences	and computer sciences	sciences		sciences	sciences, nec	
Office of Justice Programs	15,445	0	0	0	0	0	15,445	0	0
Department of Labor	14,500	0	0	0	0	0	14,500	0	0
Bureau of Labor Statistics	14,500	0	0	0	0	0	14,500	0	0
Department of the Treasury	420	0	0	0	413	0	0	7	0
Bureau of Engraving and Printing	420	0	0	0	413	0	0	7	0
Department of Veterans Affairs	180,654	0	0	0	0	12,646	0	162,588	5,420
Other agencies									
Agency for International Development	18,000	0	0	0	0	0	0	18,000	0
Environmental Protection Agency	91,307	12,713	67,601	3,716	2,970	0	118	0	4,189
National Aeronautics and Space Administration	1,831,233	520,087	81,240	18,168	720,806	3,224	564	148,360	338,784
National Science Foundation	3,977,418	731,626	645,914	764,878	820,044	4,258	172,502	278,598	559,598
Smithsonian Institution	136,000	5,940	56,839	0	52,119	0	19,993	1,109	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies	1,849,488	666,256	444,557	416,457	322,218	3,515,545	686,945	720,676	1,910,815	197,109
Departments										
Department of Agriculture	9,551	9,078	473	0	0	52,434	0	49,377	3,057	0
Agricultural Research Service	2,447	2,391	56	0	0	37,038	0	35,314	1,724	0
Cooperative State Research, Education, and Extension Service	4,316	4,316	0	0	0	6,851	0	6,851	0	0
Forest Service	2,788	2,371	417	0	0	8,545	0	7,212	1,333	0
Department of Commerce	200	0	0	0	200	63,705	187	13,628	47,911	1,979
National Institute of Standards and Technology	200	0	0	0	200	63,705	187	13,628	47,911	1,979
Department of Defense	160,296	13,784	6,451	140,042	19	194,036	0	73,455	91,550	29,031
Defense agencies and activities	199	0	199	0	0	14,483	0	1,975	5,938	6,570
Chemical and Biological Defense	0	0	0	0	0	6,570	0	0	0	6,570
Defense Advanced Research Projects Agency	0	0	0	0	0	4,042	0	0	4,042	0
Office of the Secretary of Defense <sup>a</sup>	199	0	199	0	0	3,871	0	1,975	1,896	0
Department of the Air Force	0	0	0	0	0	41,396	0	8,445	31,170	1,781
Materiel Command	0	0	0	0	0	41,396	0	8,445	31,170	1,781
Department of the Army	10,402	4,131	6,252	0	19	73,708	0	31,578	32,658	9,472
Department of the Navy	149,695	9,653	0	140,042	0	64,449	0	31,457	21,784	11,208
Department of Energy	232,057	114,644	112,372	5,041	0	1,488,158	0	160,935	1,326,255	968
Energy Efficiency and Renewable Energy	0	0	0	0	0	885	0	885	0	0
Fossil Energy	0	0	0	0	0	7,320	0	7,320	0	0
National Nuclear Security Administration	0	0	0	0	0	2,329	0	735	626	968
Nonproliferation and Verification	0	0	0	0	0	2,329	0	735	626	968
Office of Science	232,057	114,644	112,372	5,041	0	1,477,624	0	151,995	1,325,629	0
Department of Health and Human Services	240,280	0	0	0	240,280	219,981	0	208,130	0	11,851
National Institutes of Health	240,280	0	0	0	240,280	219,981	0	208,130	0	11,851
Department of Homeland Security	0	0	0	0	0	15,936	0	6,892	8,902	142
Science and Technology Directorate	0	0	0	0	0	15,936	0	6,892	8,902	142
Department of the Interior	30,805	0	30,783	0	22	22	0	0	0	22
Geological Survey	30,805	0	30,783	0	22	22	0	0	0	22
Department of the Treasury	0	0	0	0	0	270	0	10	0	260
Bureau of Engraving and Printing	0	0	0	0	0	270	0	10	0	260
Other agencies										
Environmental Protection Agency	14,523	302	944	7,296	5,981	3,393	0	3,393	0	0

TABLE 34. Federal obligations for basic research in environmental and physical sciences, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
National Aeronautics and Space Administration	512,034	313,636	127,256	30,385	40,757	709,506	440,303	31,923	205,373	31,907
National Science Foundation	644,546	214,707	161,526	233,354	34,959	722,439	203,946	172,091	225,453	120,949
Smithsonian Institution	5,196	105	4,752	339	0	45,665	42,509	842	2,314	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 35. Federal obligations for basic research in life sciences and psychology, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	14,934,420	514,299	7,699,759	344,327	5,454,361	921,674	944,867	668	4,892	939,307
Departments										
Department of Agriculture	815,438	512,266	116,122	167,710	19,340	0	173	0	0	173
Agricultural Research Service	510,908	396,903	35,592	69,348	9,065	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	215,382	113,231	55,844	42,652	3,655	0	0	0	0	0
Foreign Agricultural Service	242	242	0	0	0	0	0	0	0	0
Forest Service	88,906	1,890	24,686	55,710	6,620	0	173	0	0	173
Department of Commerce	4,646	0	4,160	112	374	0	0	0	0	0
National Institute of Standards and Technology	4,646	0	4,160	112	374	0	0	0	0	0
Department of Defense	172,737	469	65,833	13,545	54,720	38,170	20,349	345	0	20,004
Defense agencies and activities	49,996	0	25,732	595	20,980	2,689	345	345	0	0
Chemical and Biological Defense	15,329	0	0	0	15,329	0	0	0	0	0
Defense Advanced Research Projects Agency	32,347	0	24,927	0	5,651	1,769	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	2,320	0	805	595	0	920	345	345	0	0
Department of the Air Force	14,650	0	6,455	3,723	0	4,472	6,487	0	0	6,487
Materiel Command	14,650	0	6,455	3,723	0	4,472	6,487	0	0	6,487
Department of the Army	49,901	469	24,558	157	23,635	1,082	13,517	0	0	13,517
Department of the Navy	58,190	0	9,088	9,070	10,105	29,927	0	0	0	0
Department of Energy	365,514	0	226,804	0	138,710	0	0	0	0	0
Energy Efficiency and Renewable Energy	272	0	272	0	0	0	0	0	0	0
National Nuclear Security Administration	250	0	250	0	0	0	0	0	0	0
Nonproliferation and Verification	250	0	250	0	0	0	0	0	0	0
Office of Science	364,992	0	226,282	0	138,710	0	0	0	0	0
Department of Health and Human Services	12,599,381	0	6,663,296	0	5,066,170	869,915	903,564	0	0	903,564
Health Resources and Services Administration	2,584	0	0	0	2,584	0	0	0	0	0
National Institutes of Health	12,596,797	0	6,663,296	0	5,063,586	869,915	903,564	0	0	903,564
Department of Homeland Security	26,716	686	25,024	232	774	0	1,180	142	783	255
Science and Technology Directorate	26,716	686	25,024	232	774	0	1,180	142	783	255
Department of the Interior	10,979	0	5,819	5,160	0	0	0	0	0	0
Geological Survey	10,979	0	5,819	5,160	0	0	0	0	0	0
Department of Veterans Affairs	162,984	0	0	0	162,984	0	12,677	0	0	12,677
Other agencies										
Environmental Protection Agency	77,226	386	59,084	16,961	408	387	0	0	0	0

TABLE 35. Federal obligations for basic research in life sciences and psychology, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
National Aeronautics and Space Administration	79,966	492	51,416	3,975	10,881	13,202	3,173	181	358	2,634
National Science Foundation	569,034	0	458,075	110,959	0	0	3,751	0	3,751	0
Smithsonian Institution	49,799	0	24,126	25,673	0	0	0	0	0	0

nec = not elsewhere classified.

<sup>a</sup> Excluding environmental biology.<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 36. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Political science			Social sciences, nec
							Economics	Sociology		
All agencies	1,208,217	670,927	518,640	18,650	381,007	14,147	46,286	11,045	19,241	290,288
Departments										
Department of Agriculture	4,667	0	4,667	0	35,156	157	27,361	0	6,644	994
Agricultural Research Service	723	0	723	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	21,369	0	15,268	0	6,101	0
Economic Research Service	0	0	0	0	7,500	0	7,500	0	0	0
Forest Service	2,055	0	2,055	0	6,287	157	4,593	0	543	994
National Agricultural Statistics Service	1,889	0	1,889	0	0	0	0	0	0	0
Department of Commerce	519	0	480	39	0	0	0	0	0	0
National Institute of Standards and Technology	519	0	480	39	0	0	0	0	0	0
Department of Defense	194,923	128,270	53,918	12,735	156	0	0	0	0	156
Defense agencies and activities	28,281	10,210	18,071	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	21,942	6,779	15,163	0	0	0	0	0	0	0
Office of the Secretary of Defense <sup>a</sup>	6,339	3,431	2,908	0	0	0	0	0	0	0
Department of the Air Force	44,800	26,275	7,291	11,234	0	0	0	0	0	0
Materiel Command	44,800	26,275	7,291	11,234	0	0	0	0	0	0
Department of the Army	85,766	68,898	15,666	1,202	156	0	0	0	0	156
Department of the Navy	36,076	22,887	12,890	299	0	0	0	0	0	0
Department of Education	0	0	0	0	2,564	0	0	0	0	2,564
Department of Energy	222,934	44,687	177,607	640	0	0	0	0	0	0
National Nuclear Security Administration	640	0	0	640	0	0	0	0	0	0
Nonproliferation and Verification	640	0	0	640	0	0	0	0	0	0
Office of Science	222,294	44,687	177,607	0	0	0	0	0	0	0
Department of Health and Human Services	85,843	0	85,843	0	137,058	0	0	0	0	137,058
National Institutes of Health	85,843	0	85,843	0	137,058	0	0	0	0	137,058
Department of Homeland Security	2,952	1,189	699	1,064	4,385	0	619	3,028	595	143
Science and Technology Directorate	2,952	1,189	699	1,064	4,385	0	619	3,028	595	143
Department of the Interior	230	208	22	0	26	0	0	0	22	4
Geological Survey	230	208	22	0	26	0	0	0	22	4
Department of Justice	0	0	0	0	18,089	0	0	0	4,000	14,089
Office of Justice Programs	0	0	0	0	18,089	0	0	0	4,000	14,089
Department of Labor	0	0	0	0	13,600	0	0	0	0	13,600
Bureau of Labor Statistics	0	0	0	0	13,600	0	0	0	0	13,600
Other agencies										
Environmental Protection Agency	4,245	1,768	2,055	422	135	0	0	0	0	135

TABLE 36. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Computer sciences			Mathematics and computer sciences, nec	Political science					Social sciences, nec
	Total	sciences	Mathematics		Total	Anthropology	Economics	science	Sociology	
National Aeronautics and Space Administration	18,065	13,316	999	3,750	554	0	0	0	200	354
National Science Foundation	673,839	481,489	192,350	0	151,970	10,835	18,306	8,017	7,338	107,474
Smithsonian Institution	0	0	0	0	17,314	3,155	0	0	442	13,717

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 37. Federal obligations for basic research in engineering, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies	2,364,580	242,655	57,796	67,616	67,437	205,143	70,456	811,356	842,121
Departments									
Department of Agriculture	28,378	0	0	4,935	2,044	471	1,542	0	19,386
Agricultural Research Service	5,005	0	0	2,502	779	445	556	0	723
Cooperative State Research, Education, and Extension Service	6,257	0	0	0	0	0	0	0	6,257
Forest Service	17,116	0	0	2,433	1,265	26	986	0	12,406
Department of Commerce	3,755	0	0	334	0	1,563	119	1,309	430
National Institute of Standards and Technology	3,755	0	0	334	0	1,563	119	1,309	430
Department of Defense	426,313	31,168	6,945	7,804	3,283	133,572	56,280	103,768	83,493
Defense agencies and activities	66,996	507	0	356	333	27,650	1,979	13,976	22,195
Defense Advanced Research Projects Agency	47,574	0	0	0	0	14,676	0	10,703	22,195
Office of the Secretary of Defense <sup>a</sup>	19,422	507	0	356	333	12,974	1,979	3,273	0
Department of the Air Force	118,755	19,369	6,945	3,927	0	19,563	1,342	34,556	33,053
Materiel Command	118,755	19,369	6,945	3,927	0	19,563	1,342	34,556	33,053
Department of the Army	104,717	7,376	0	3,521	2,950	38,013	27,851	22,934	2,072
Department of the Navy	135,845	3,916	0	0	0	48,346	25,108	32,302	26,173
Department of Energy	525,317	0	300	0	0	0	1,684	522,717	616
National Nuclear Security Administration	3,996	0	300	0	0	0	0	3,080	616
Nonproliferation and Verification	3,996	0	300	0	0	0	0	3,080	616
Office of Science	521,321	0	0	0	0	0	1,684	519,637	0
Department of Health and Human Services	525,157	0	0	0	0	0	0	39,810	485,347
National Institutes of Health	525,157	0	0	0	0	0	0	39,810	485,347
Department of Homeland Security	16,976	232	0	192	1,069	142	231	285	14,825
Science and Technology Directorate	16,976	232	0	192	1,069	142	231	285	14,825
Department of the Interior	26	0	0	0	22	4	0	0	0
Geological Survey	26	0	0	0	22	4	0	0	0
Department of Transportation	1,574	0	0	0	1,574	0	0	0	0
Federal Highway Administration	1,574	0	0	0	1,574	0	0	0	0
Department of Veterans Affairs	5,432	0	0	0	0	0	0	0	5,432

TABLE 37. Federal obligations for basic research in engineering, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
Other agencies									
Environmental Protection Agency	4,786	0	0	2,105	0	0	0	0	2,681
National Aeronautics and Space Administration	333,874	211,255	50,551	2,325	207	10,613	7,134	11,805	39,984
National Science Foundation	492,992	0	0	49,921	59,238	58,778	3,466	131,662	189,927

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 38. Federal obligations for applied research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	26,951,058	7,497,980	4,577,383	727,467	9,151,808	1,686,170	2,581,457	272,768	265,128	190,897
Departments										
Department of Agriculture	1,084,741	629,936	18,689	0	415,436	0	14,502	0	4,357	1,821
Agricultural Marketing Service	6,337	6,164	0	0	173	0	0	0	0	0
Agricultural Research Service	465,325	414,839	0	0	45,418	0	3,674	0	103	1,291
Cooperative State Research, Education, and Extension Service	390,920	20,976	15,765	0	347,638	0	5,667	0	874	0
Economic Research Service	67,504	59,055	2,212	0	4,865	0	1,292	0	0	80
Foreign Agricultural Service	622	154	0	0	248	0	47	0	0	173
Forest Service	138,150	116,185	712	0	16,284	0	1,312	0	3,380	277
Grain Inspection, Packers, and Stockyards Administration	7,112	7,112	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	4,626	4,351	0	0	240	0	35	0	0	0
Rural Business-Cooperative Service	4,145	1,100	0	0	570	0	2,475	0	0	0
Department of Commerce	767,340	500,296	41,754	74	203,600	2,418	11,753	141	7,054	250
Economic Development Administration	233	11	0	0	222	0	0	0	0	0
National Institute of Standards and Technology	282,620	233,031	33,651	74	13,505	25	1,796	141	147	250
National Oceanic and Atmospheric Administration	471,805	254,572	8,103	0	189,873	2,393	9,957	0	6,907	0
National Telecommunications and Information Administration	6,680	6,680	0	0	0	0	0	0	0	0
U.S. Census Bureau	6,002	6,002	0	0	0	0	0	0	0	0
Department of Defense	4,447,745	1,390,496	2,131,808	15,704	639,519	88,583	114,474	43,618	0	23,543
Defense agencies and activities	1,580,168	213,334	875,218	14,760	311,673	74,141	61,807	11,791	0	17,444
Chemical and Biological Defense	75,743	55,880	4,534	800	13,821	0	0	0	0	708
Defense Advanced Research Projects Agency	1,079,442	64,134	641,511	6,308	254,615	31,417	61,052	6,969	0	13,436
Defense Threat Reduction Agency	331,703	82,839	206,197	7,652	7,398	18,775	720	4,822	0	3,300
Office of the Secretary of Defense <sup>b</sup>	67,547	7,024	700	0	35,839	23,949	35	0	0	0
Special Operations Command	25,733	3,457	22,276	0	0	0	0	0	0	0
Department of the Air Force	1,000,454	511,492	419,061	614	55,796	3,559	8,635	570	0	727
Materiel Command	1,000,454	511,492	419,061	614	55,796	3,559	8,635	570	0	727
Department of the Army	1,103,778	413,626	515,352	230	111,527	1,209	29,616	29,667	0	2,551
Department of the Navy	763,345	252,044	322,177	100	160,523	9,674	14,416	1,590	0	2,821
Department of Education	212,998	8,430	7,325	0	155,244	0	41,839	0	160	0
Department of Energy	2,885,693	308,394	265,986	549,499	173,586	1,407,910	38,111	140,801	1,406	0
Bonneville Power Administration	9,755	9,755	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	52,922	6,771	0	21,903	0	22,328	0	1,920	0	0
Electricity Delivery and Energy Restoration	93,449	2,955	30,127	16,748	10,608	5,111	1,767	24,727	1,406	0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Energy Efficiency and Renewable Energy	210,171	82,121	0	20,759	21,595	19,421	5,972	60,303	0	0
Environmental Management	10,192	1	0	131	10,011	3	0	46	0	0
Fossil Energy	210,812	34,971	96,847	5,506	52,131	5,411	8,754	7,192	0	0
National Nuclear Security Administration	2,210,920	171,819	134,370	437,329	72,310	1,342,243	21,618	31,231	0	0
Defense Programs	2,076,191	163,518	125,971	408,787	67,980	1,288,317	21,618	0	0	0
Nonproliferation and Verification	134,729	8,301	8,399	28,542	4,330	53,926	0	31,231	0	0
Nuclear Energy	87,472	1	4,642	47,123	6,931	13,393	0	15,382	0	0
Department of Health and Human Services	13,140,032	2,694,340	907,204	128,500	7,052,661	31,821	2,036,279	17,728	115,231	156,268
Administration for Children and Families	14,445	275	0	0	12,211	0	1,659	0	300	0
Administration on Aging	2,931	73	0	0	0	0	2,858	0	0	0
Agency for Healthcare Research and Quality	293,180	49,946	98,896	0	72,097	0	66,140	0	3,659	2,442
Agency for Toxic Substances and Disease Registry	8,966	4,709	551	0	2,122	0	996	0	588	0
Centers for Disease Control and Prevention	544,583	196,497	5,390	0	173,597	0	103,971	0	43,053	22,075
Centers for Medicare and Medicaid Services	62,394	20	30,630	0	3,393	0	7,930	0	20,421	0
Food and Drug Administration	143,349	114,081	3,867	0	14,504	0	10,311	0	241	345
Health Resources and Services Administration	14,758	689	0	0	11,364	0	2,705	0	0	0
National Institutes of Health	12,028,583	2,321,300	758,130	128,500	6,759,520	31,821	1,833,209	17,728	46,969	131,406
Office of the Secretary	26,843	6,750	9,740	0	3,853	0	6,500	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	26,843	6,750	9,740	0	3,853	0	6,500	0	0	0
Department of Homeland Security	526,336	182,711	167,906	16,286	7,295	83,332	14,975	44,501	9,330	0
Science and Technology Directorate	515,727	177,332	163,476	15,486	7,295	83,332	14,975	44,501	9,330	0
Transportation Security Administration	2,576	1	1,775	800	0	0	0	0	0	0
U.S. Coast Guard	7,065	4,460	2,605	0	0	0	0	0	0	0
U.S. Secret Service	968	918	50	0	0	0	0	0	0	0
Department of Housing and Urban Development	11,502	7,866	1,714	0	552	0	1,370	0	0	0
Department of the Interior	508,984	433,203	9,300	0	47,224	357	3,553	0	15,108	239
Bureau of Reclamation	3,085	982	774	0	246	0	1,046	0	37	0
Geological Survey	473,376	420,451	2,098	0	36,171	0	0	0	14,656	0
Minerals Management Service	28,869	10,652	6,251	0	8,732	357	2,223	0	415	239
National Park Service <sup>c</sup>	3,654	1,118	177	0	2,075	0	284	0	0	0
Department of Justice	34,883	6,136	5,809	0	7,917	0	13,014	249	1,758	0
Bureau of Prisons	2,744	986	0	0	0	0	0	0	1,758	0
Office of Justice Programs	32,139	5,150	5,809	0	7,917	0	13,014	249	0	0
Department of Labor	16,536	13,770	1,239	0	481	0	1,021	0	25	0
Bureau of Labor Statistics	9,200	8,800	400	0	0	0	0	0	0	0
Employee Benefits Security Administration	2,622	973	799	0	0	0	850	0	0	0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Employment and Training Administration	660	32	36	0	481	0	86	0	25	0
Occupational Safety and Health Administration	3,500	3,500	0	0	0	0	0	0	0	0
Office of the Secretary	339	250	4	0	0	0	85	0	0	0
Pension Benefit Guaranty Corporation	215	215	0	0	0	0	0	0	0	0
Department of State	4,161	719	3,442	0	0	0	0	0	0	0
Department of Transportation	533,617	187,473	224,804	3,136	41,008	7,309	56,823	2,551	10,231	282
Federal Aviation Administration	136,620	58,152	48,222	3,136	20,026	7,084	0	0	0	0
Federal Highway Administration	286,823	70,060	141,161	0	8,390	225	54,978	2,551	9,458	0
Federal Motor Carrier Safety Administration	5,313	3,365	1,211	0	700	0	37	0	0	0
Federal Railroad Administration	40,823	17,668	19,560	0	3,313	0	0	0	0	282
Federal Transit Administration	3,559	234	500	0	1,092	0	1,733	0	0	0
National Highway Traffic Safety Administration	57,510	36,806	12,444	0	7,487	0	0	0	773	0
Pipeline and Hazardous Materials Safety Administration	2,225	519	1,706	0	0	0	0	0	0	0
Research and Innovative Technology Administration	744	669	0	0	0	0	75	0	0	0
Department of the Treasury	60,448	54,057	6,026	0	20	0	8	337	0	0
Bureau of Engraving and Printing	5,060	5,060	0	0	0	0	0	0	0	0
Internal Revenue Service	55,388	48,997	6,026	0	20	0	8	337	0	0
Department of Veterans Affairs	210,787	210,787	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	197,000	24,165	11,021	0	24,084	0	137,730	0	0	0
Appalachian Regional Commission	985	54	581	0	110	0	240	0	0	0
Broadcasting Board of Governors	218	33	185	0	0	0	0	0	0	0
Environmental Protection Agency	400,489	319,325	14,321	0	41,629	0	19,228	0	4,530	1,456
Federal Communications Commission	7,123	6,968	155	0	0	0	0	0	0	0
Federal Trade Commission	1,606	1,606	0	0	0	0	0	0	0	0
Library of Congress	3,339	3,339	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	1,468,573	491,173	631,848	137	137,194	54,646	57,935	2,193	89,916	3,531
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0

TABLE 38. Federal obligations for applied research, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
National Science Foundation	286,575	1,009	72,164	0	193,985	0	12,866	4,872	0	1,679
Nuclear Regulatory Commission	71,385	17,931	7,337	14,131	3,766	9,794	962	15,777	0	1,687
Social Security Administration	67,842	3,643	46,765	0	6,497	0	4,774	0	6,022	141

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>c</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	27,598,082	7,454,766	5,003,894	660,323	9,366,756	1,727,789	2,667,927	273,768	246,136	196,723
Departments										
Department of Agriculture	1,123,769	623,199	17,312	0	470,017	0	7,442	0	4,331	1,468
Agricultural Marketing Service	6,628	6,455	0	0	173	0	0	0	0	0
Agricultural Research Service	438,614	393,484	0	0	41,330	0	2,755	0	77	968
Cooperative State Research, Education, and Extension Service	448,144	23,528	15,600	0	406,657	0	1,485	0	874	0
Economic Research Service	67,674	61,268	1,000	0	4,500	0	856	0	0	50
Foreign Agricultural Service	622	154	0	0	248	0	47	0	0	173
Forest Service	148,050	126,069	712	0	16,284	0	1,328	0	3,380	277
Grain Inspection, Packers, and Stockyards Administration	6,676	6,676	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	4,740	4,465	0	0	240	0	35	0	0	0
Rural Business-Cooperative Service	2,621	1,100	0	0	585	0	936	0	0	0
Department of Commerce	698,119	524,649	48,596	74	118,067	1,218	3,514	141	1,610	250
Economic Development Administration	1,076	12	0	0	1,064	0	0	0	0	0
National Institute of Standards and Technology	313,382	247,624	46,610	74	16,361	25	2,150	141	147	250
National Oceanic and Atmospheric Administration	370,729	264,081	1,986	0	100,642	1,193	1,364	0	1,463	0
National Telecommunications and Information Administration	7,134	7,134	0	0	0	0	0	0	0	0
U.S. Census Bureau	5,798	5,798	0	0	0	0	0	0	0	0
Department of Defense	5,335,580	1,531,642	2,582,822	21,959	824,278	99,785	206,623	39,000	0	29,471
Defense agencies and activities	2,142,794	219,057	1,248,968	19,425	439,974	84,030	94,329	11,044	0	25,967
Chemical and Biological Defense	62,602	46,650	9,679	471	1,762	0	0	0	0	4,040
Defense Advanced Research Projects Agency	1,662,900	98,800	981,617	11,249	399,207	46,541	94,052	10,736	0	20,698
Defense Threat Reduction Agency	318,534	55,781	235,509	7,705	3,861	14,030	111	308	0	1,229
Office of the Secretary of Defense <sup>b</sup>	76,043	14,774	2,500	0	35,144	23,459	166	0	0	0
Special Operations Command	22,715	3,052	19,663	0	0	0	0	0	0	0
Department of the Air Force	1,086,858	576,210	447,103	559	48,305	3,380	10,605	571	0	125
Materiel Command	1,086,858	576,210	447,103	559	48,305	3,380	10,605	571	0	125
Department of the Army	1,244,829	452,054	523,316	1,862	154,920	1,462	85,427	25,591	0	197
Department of the Navy	861,099	284,321	363,435	113	181,079	10,913	16,262	1,794	0	3,182
Department of Education	201,751	8,081	6,873	0	146,247	0	40,550	0	0	0
Department of Energy	2,779,287	274,374	228,486	477,005	138,312	1,474,120	31,827	155,163	0	0
Bonneville Power Administration	8,479	8,479	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	12,360	1	0	899	0	11,460	0	0	0	0
Electricity Delivery and Energy Restoration	65,930	1	33,279	11,387	5,344	7,418	0	8,501	0	0

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Energy Efficiency and Renewable Energy	342,343	133,764	0	33,815	35,176	31,635	9,727	98,226	0	0
Environmental Management	6,417	1	0	64	6,288	26	0	38	0	0
Fossil Energy	199,456	33,908	103,202	5,210	41,494	3,018	6,402	6,222	0	0
National Nuclear Security Administration	2,076,200	98,219	91,965	397,851	44,150	1,389,638	15,698	38,679	0	0
Defense Programs	1,950,870	93,093	86,485	370,111	44,150	1,341,333	15,698	0	0	0
Nonproliferation and Verification	125,330	5,126	5,480	27,740	0	48,305	0	38,679	0	0
Nuclear Energy	68,102	1	40	27,779	5,860	30,925	0	3,497	0	0
Department of Health and Human Services	13,186,717	2,700,875	913,280	129,182	7,086,356	31,990	2,040,640	17,822	109,854	156,718
Administration for Children and Families	14,748	281	0	0	12,467	0	1,694	0	306	0
Agency for Healthcare Research and Quality	293,196	49,949	98,901	0	72,101	0	66,144	0	3,659	2,442
Agency for Toxic Substances and Disease Registry	10,861	2,612	2,191	0	3,158	0	520	0	2,210	170
Centers for Disease Control and Prevention	534,222	192,808	5,287	0	170,270	0	101,978	0	42,227	21,652
Centers for Medicare and Medicaid Services	57,420	20	31,682	0	3,472	0	8,246	0	14,000	0
Food and Drug Administration	142,586	113,449	3,846	0	14,452	0	10,256	0	233	350
Health Resources and Services Administration	14,773	704	0	0	11,364	0	2,705	0	0	0
National Institutes of Health	12,093,510	2,334,664	762,157	129,182	6,795,426	31,990	1,842,946	17,822	47,219	132,104
Office of the Secretary	25,401	6,388	9,216	0	3,646	0	6,151	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,401	6,388	9,216	0	3,646	0	6,151	0	0	0
Department of Homeland Security	328,060	65,136	112,337	15,363	26,976	51,208	20,062	36,407	551	20
Science and Technology Directorate	320,101	59,931	109,583	15,363	26,976	51,208	20,062	36,407	551	20
U.S. Coast Guard	7,079	4,325	2,754	0	0	0	0	0	0	0
U.S. Secret Service	880	880	0	0	0	0	0	0	0	0
Department of Housing and Urban Development	12,750	8,720	1,900	0	612	0	1,518	0	0	0
Department of the Interior	482,696	411,366	11,063	0	42,047	0	1,751	0	15,571	898
Bureau of Reclamation	2,980	954	745	0	238	0	1,013	0	30	0
Geological Survey	453,292	400,876	3,457	0	34,303	0	0	0	14,656	0
Minerals Management Service	26,424	9,536	6,861	0	7,506	0	738	0	885	898
Department of Justice	31,863	6,013	5,100	0	6,750	0	12,000	250	1,750	0
Bureau of Prisons	2,763	1,013	0	0	0	0	0	0	1,750	0
Office of Justice Programs	29,100	5,000	5,100	0	6,750	0	12,000	250	0	0
Department of Labor	17,256	13,156	1,433	0	1,575	0	1,011	0	81	0
Bureau of Labor Statistics	8,300	7,900	400	0	0	0	0	0	0	0
Employee Benefits Security Administration	2,558	958	875	0	0	0	725	0	0	0
Employment and Training Administration	2,163	103	118	0	1,575	0	286	0	81	0
Occupational Safety and Health Administration	3,724	3,724	0	0	0	0	0	0	0	0
Office of the Secretary	290	250	40	0	0	0	0	0	0	0

TABLE 39. Preliminary federal obligations for applied research, by agency and performer: FY 2007  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Pension Benefit Guaranty Corporation	221	221	0	0	0	0	0	0	0	0
Department of State	4,338	738	3,600	0	0	0	0	0	0	0
Department of Transportation	553,038	207,708	233,488	2,681	38,200	1,440	65,447	248	3,526	300
Federal Aviation Administration	131,297	67,203	43,155	2,681	17,008	1,250	0	0	0	0
Federal Highway Administration	307,400	80,527	151,522	0	9,860	190	62,059	248	2,994	0
Federal Motor Carrier Safety Administration	8,698	2,115	3,908	0	580	0	1,563	0	532	0
Federal Railroad Administration	40,046	19,081	20,173	0	492	0	0	0	0	300
Federal Transit Administration	4,025	275	0	0	2,000	0	1,750	0	0	0
National Highway Traffic Safety Administration	57,510	36,806	12,444	0	8,260	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	2,805	519	2,286	0	0	0	0	0	0	0
Research and Innovative Technology Administration	1,257	1,182	0	0	0	0	75	0	0	0
Department of the Treasury	61,474	55,553	5,562	0	150	0	9	200	0	0
Bureau of Engraving and Printing	6,743	6,743	0	0	0	0	0	0	0	0
Internal Revenue Service	54,731	48,810	5,562	0	150	0	9	200	0	0
Department of Veterans Affairs	211,800	211,800	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	197,000	24,165	11,021	0	24,084	0	137,730	0	0	0
Appalachian Regional Commission	704	54	250	0	200	0	200	0	0	0
Environmental Protection Agency	356,257	284,044	12,741	0	37,041	0	17,108	0	4,030	1,293
Federal Communications Commission	7,734	7,232	502	0	0	0	0	0	0	0
Federal Trade Commission	1,684	1,684	0	0	0	0	0	0	0	0
Library of Congress	315	315	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	1,451,012	468,012	632,172	147	137,861	58,072	57,997	2,323	92,900	1,528
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	378,835	1,334	95,399	0	256,434	0	17,008	6,441	0	2,219
Nuclear Regulatory Commission	76,512	19,713	11,654	13,912	2,446	9,956	500	15,773	0	2,558
Social Security Administration	99,411	5,083	68,303	0	9,103	0	4,990	0	11,932	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2008

(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	26,988,023	7,633,080	4,425,209	715,360	9,166,655	1,749,478	2,595,500	270,344	238,840	193,557
Departments										
Department of Agriculture	946,341	615,365	14,257	0	304,338	0	6,597	0	4,331	1,453
Agricultural Marketing Service	6,801	6,628	0	0	173	0	0	0	0	0
Agricultural Research Service	418,822	401,383	0	0	13,639	0	2,755	0	77	968
Cooperative State Research, Education, and Extension Service	303,698	21,540	12,545	0	267,254	0	1,485	0	874	0
Economic Research Service	74,290	65,793	1,000	0	6,500	0	947	0	0	50
Foreign Agricultural Service	622	154	0	0	248	0	47	0	0	173
Forest Service	128,250	106,284	712	0	16,284	0	1,328	0	3,380	262
Grain Inspection, Packers, and Stockyards Administration	7,876	7,876	0	0	0	0	0	0	0	0
National Agricultural Statistics Service	4,882	4,607	0	0	240	0	35	0	0	0
Rural Business-Cooperative Service	1,100	1,100	0	0	0	0	0	0	0	0
Department of Commerce	731,066	556,737	16,295	74	151,143	1,218	3,419	142	1,787	251
National Institute of Standards and Technology	301,917	266,694	14,534	74	17,792	25	2,257	142	148	251
National Oceanic and Atmospheric Administration	416,984	277,878	1,761	0	133,351	1,193	1,162	0	1,639	0
National Telecommunications and Information Administration	7,134	7,134	0	0	0	0	0	0	0	0
U.S. Census Bureau	5,031	5,031	0	0	0	0	0	0	0	0
Department of Defense	4,601,823	1,529,767	2,102,559	23,814	675,897	88,327	124,229	31,849	0	25,381
Defense agencies and activities	2,091,033	358,873	1,089,596	22,878	424,089	75,398	87,482	10,169	0	22,548
Chemical and Biological Defense	260,175	211,243	5,552	7,655	33,173	0	0	0	0	2,552
Defense Advanced Research Projects Agency	1,545,520	91,826	912,328	10,455	371,027	43,256	87,413	9,978	0	19,237
Defense Threat Reduction Agency	197,129	34,521	145,748	4,768	2,390	8,683	69	191	0	759
Office of the Secretary of Defense <sup>b</sup>	64,910	18,152	5,800	0	17,499	23,459	0	0	0	0
Special Operations Command	23,299	3,131	20,168	0	0	0	0	0	0	0
Department of the Air Force	1,011,581	544,544	404,340	601	51,377	3,240	6,766	563	0	150
Materiel Command	1,011,581	544,544	404,340	601	51,377	3,240	6,766	563	0	150
Department of the Army	814,081	400,132	319,458	245	56,356	1,006	17,042	19,690	0	152
Department of the Navy	685,128	226,218	289,165	90	144,075	8,683	12,939	1,427	0	2,531
Department of Education	204,456	9,548	6,353	0	146,373	0	42,182	0	0	0
Department of Energy	3,075,484	452,688	219,690	536,703	146,270	1,516,535	34,294	169,304	0	0
Bonneville Power Administration	6,660	6,660	0	0	0	0	0	0	0	0
Civilian Radioactive Waste Management	28,882	1	0	3,597	0	25,284	0	0	0	0
Electricity Delivery and Energy Restoration	57,185	1	28,865	9,877	4,635	6,434	0	7,373	0	0
Energy Efficiency and Renewable Energy	366,727	143,291	0	36,223	37,682	33,888	10,420	105,223	0	0



TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2008  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
Environmental Management	6,417	1	0	64	6,288	26	0	38	0	0
Fossil Energy	208,850	31,722	114,234	5,160	38,621	4,403	6,998	7,712	0	0
National Nuclear Security Administration	2,192,546	271,011	76,551	382,390	53,044	1,353,995	16,876	38,679	0	0
Defense Programs	2,067,216	265,885	71,071	354,650	53,044	1,305,690	16,876	0	0	0
Nonproliferation and Verification	125,330	5,126	5,480	27,740	0	48,305	0	38,679	0	0
Nuclear Energy	208,217	1	40	99,392	6,000	92,505	0	10,279	0	0
Department of Health and Human Services	13,307,766	2,728,701	909,720	130,716	7,166,160	32,370	2,060,399	18,034	103,478	158,188
Administration for Children and Families	15,058	287	0	0	12,729	0	1,729	0	313	0
Agency for Healthcare Research and Quality	303,198	51,653	102,275	0	74,561	0	68,400	0	3,784	2,525
Agency for Toxic Substances and Disease Registry	6,434	4,764	0	0	1,520	0	0	0	150	0
Centers for Disease Control and Prevention	534,222	192,808	5,287	0	170,270	0	101,978	0	42,227	21,652
Centers for Medicare and Medicaid Services	33,700	20	18,016	0	1,975	0	4,689	0	9,000	0
Food and Drug Administration	137,839	109,672	3,718	0	13,971	0	9,915	0	225	338
Health Resources and Services Administration	14,790	721	0	0	11,364	0	2,705	0	0	0
National Institutes of Health	12,237,124	2,362,388	771,208	130,716	6,876,124	32,370	1,864,832	18,034	47,779	133,673
Office of the Secretary	25,401	6,388	9,216	0	3,646	0	6,151	0	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,401	6,388	9,216	0	3,646	0	6,151	0	0	0
Department of Homeland Security	243,403	49,529	82,762	11,336	19,904	37,784	14,803	26,863	407	15
Science and Technology Directorate	236,189	44,220	80,857	11,336	19,904	37,784	14,803	26,863	407	15
U.S. Coast Guard	6,275	4,425	1,850	0	0	0	0	0	0	0
U.S. Secret Service	939	884	55	0	0	0	0	0	0	0
Department of Housing and Urban Development	13,883	9,494	2,069	0	666	0	1,654	0	0	0
Department of the Interior	482,248	418,040	9,758	0	36,763	0	1,271	0	15,488	928
Bureau of Reclamation	3,151	1,008	788	0	252	0	1,071	0	32	0
Geological Survey	453,092	406,562	3,623	0	28,251	0	0	0	14,656	0
Minerals Management Service	26,005	10,470	5,347	0	8,260	0	200	0	800	928
Department of Justice	28,093	5,193	5,100	0	5,000	0	10,800	250	1,750	0
Bureau of Prisons	2,793	1,043	0	0	0	0	0	0	1,750	0
Office of Justice Programs	25,300	4,150	5,100	0	5,000	0	10,800	250	0	0
Department of Labor	16,615	13,235	1,353	0	1,058	0	914	0	55	0
Bureau of Labor Statistics	8,300	7,900	400	0	0	0	0	0	0	0
Employee Benefits Security Administration	2,577	978	875	0	0	0	724	0	0	0
Employment and Training Administration	1,450	69	78	0	1,058	0	190	0	55	0
Occupational Safety and Health Administration	3,810	3,810	0	0	0	0	0	0	0	0
Office of the Secretary	250	250	0	0	0	0	0	0	0	0
Pension Benefit Guaranty Corporation	228	228	0	0	0	0	0	0	0	0

TABLE 40. Preliminary federal obligations for applied research, by agency and performer: FY 2008

(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Department of State	4,757	757	4,000	0	0	0	0	0	0	0
Department of Transportation	584,852	225,783	232,235	1,430	51,533	1,484	63,135	254	8,698	300
Federal Aviation Administration	140,000	70,169	43,355	1,430	23,786	1,260	0	0	0	0
Federal Highway Administration	332,461	85,338	166,112	0	10,700	224	61,135	254	8,698	0
Federal Motor Carrier Safety Administration	6,577	2,277	2,900	0	700	0	700	0	0	0
Federal Railroad Administration	27,701	18,798	8,053	0	550	0	0	0	0	300
Federal Transit Administration	3,841	291	350	0	2,000	0	1,200	0	0	0
National Highway Traffic Safety Administration	65,699	42,047	9,855	0	13,797	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	2,241	631	1,610	0	0	0	0	0	0	0
Research and Innovative Technology Administration	6,332	6,232	0	0	0	0	100	0	0	0
Department of the Treasury	68,418	62,358	5,800	0	0	0	10	250	0	0
Bureau of Engraving and Printing	7,418	7,418	0	0	0	0	0	0	0	0
Internal Revenue Service	61,000	54,940	5,800	0	0	0	10	250	0	0
Department of Veterans Affairs	210,275	210,275	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	197,000	24,165	11,021	0	24,084	0	137,730	0	0	0
Appalachian Regional Commission	705	55	250	0	0	200	200	0	0	0
Environmental Protection Agency	346,679	276,407	12,398	0	36,045	0	16,648	0	3,921	1,260
Federal Communications Commission	6,308	6,308	0	0	0	0	0	0	0	0
Federal Trade Commission	1,974	1,974	0	0	0	0	0	0	0	0
Library of Congress	345	345	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	1,363,481	413,507	604,194	156	133,765	60,909	53,876	2,448	93,078	1,548
National Archives and Records Administration	120	120	0	0	0	0	0	0	0	0
National Science Foundation	380,302	1,339	95,773	0	257,423	0	17,074	6,465	0	2,228
Nuclear Regulatory Commission	70,933	18,340	12,041	11,131	1,700	10,651	580	14,485	0	2,005
Social Security Administration	100,696	3,050	77,581	0	8,533	0	5,685	0	5,847	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 41. Federal obligations for applied research, by detailed field of science and engineering: FY 2006–08  
(Dollars in thousands)

Field	2006	Preliminary	
		2007	2008
All fields	26,951,058	27,598,082	26,988,023
Environmental sciences	1,581,132	1,445,355	1,451,116
Atmospheric sciences	500,650	NA	NA
Geological sciences	209,329	NA	NA
Oceanography	329,385	NA	NA
Environmental sciences, nec	541,768	NA	NA
Life sciences	12,993,280	13,021,291	12,800,514
Agricultural sciences	593,859	NA	NA
Biological sciences (excluding environmental biology)	5,991,076	NA	NA
Environmental biology	342,268	NA	NA
Medical sciences	5,137,828	NA	NA
Life sciences, nec	928,249	NA	NA
Mathematics and computer sciences	1,606,707	1,876,089	1,734,663
Computer sciences	1,316,889	NA	NA
Mathematics	150,534	NA	NA
Mathematics and computer sciences, nec	139,284	NA	NA
Physical sciences	1,835,560	1,666,988	1,667,061
Astronomy	105,516	NA	NA
Chemistry	405,692	NA	NA
Physics	1,090,992	NA	NA
Physical sciences, nec	233,360	NA	NA
Psychology	802,442	804,406	809,681
Biological aspects	2,346	NA	NA
Social aspects	36,035	NA	NA
Psychological sciences, nec	764,061	NA	NA
Social sciences	742,919	747,696	748,959
Anthropology	982	NA	NA
Economics	156,301	NA	NA
Political science	33,562	NA	NA
Sociology	124,940	NA	NA
Social sciences, nec	427,134	NA	NA
Other sciences, nec	1,074,868	1,290,679	1,228,812
Engineering	6,314,150	6,745,578	6,547,217
Aeronautical engineering	986,517	NA	NA
Astronautical engineering	418,553	NA	NA
Chemical engineering	226,978	NA	NA
Civil engineering	285,238	NA	NA
Electrical engineering	830,334	NA	NA
Mechanical engineering	227,699	NA	NA
Metallurgy and materials engineering	438,607	NA	NA
Engineering, nec	2,900,224	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	26,951,058	1,581,132	12,993,280	1,606,707	1,835,560	802,442	742,919	1,074,868	6,314,150
Departments									
Department of Agriculture	1,084,741	13,632	855,286	15,157	46,661	357	115,429	0	38,219
Agricultural Marketing Service	6,337	0	6,337	0	0	0	0	0	0
Agricultural Research Service	465,325	2,047	427,494	605	30,991	0	0	0	4,188
Cooperative State Research, Education, and Extension Service	390,920	6,636	331,267	0	10,535	0	32,861	0	9,621
Economic Research Service	67,504	0	0	0	0	0	67,504	0	0
Foreign Agricultural Service	622	0	622	0	0	0	0	0	0
Forest Service	138,150	4,949	79,979	9,926	5,135	357	13,394	0	24,410
Grain Inspection, Packers, and Stockyards Administration	7,112	0	7,112	0	0	0	0	0	0
National Agricultural Statistics Service	4,626	0	0	4,626	0	0	0	0	0
Rural Business-Cooperative Service	4,145	0	2,475	0	0	0	1,670	0	0
Department of Commerce	767,340	365,397	75,529	75,100	81,862	360	10,296	10,638	148,158
Economic Development Administration	233	0	0	0	0	0	233	0	0
National Institute of Standards and Technology	282,620	1,053	4,308	68,196	67,095	0	46	6,108	135,814
National Oceanic and Atmospheric Administration	471,805	364,344	71,221	3,303	14,767	0	7,976	4,530	5,664
National Telecommunications and Information Administration	6,680	0	0	0	0	0	0	0	6,680
U.S. Census Bureau	6,002	0	0	3,601	0	360	2,041	0	0
Department of Defense	4,447,745	175,436	418,965	648,920	434,242	26,219	15,562	111,004	2,617,397
Defense agencies and activities	1,580,168	15,755	216,705	436,329	164,330	1,680	0	93,959	651,410
Chemical and Biological Defense	75,743	0	37,155	0	38,588	0	0	0	0
Defense Advanced Research Projects Agency	1,079,442	14,075	154,030	391,279	55,266	0	0	7,155	457,637
Defense Threat Reduction Agency	331,703	0	2,930	40,006	67,995	0	0	86,804	133,968
Office of the Secretary of Defense <sup>a</sup>	67,547	1,680	21,020	5,044	2,481	1,680	0	0	35,642
Special Operations Command	25,733	0	1,570	0	0	0	0	0	24,163
Department of the Air Force	1,000,454	30,797	37,036	49,909	139,725	8,706	0	17,045	717,236
Materiel Command	1,000,454	30,797	37,036	49,909	139,725	8,706	0	17,045	717,236
Department of the Army	1,103,778	15,910	114,638	132,149	122,554	15,833	15,562	0	687,132
Department of the Navy	763,345	112,974	50,586	30,533	7,633	0	0	0	561,619
Department of Education	212,998	0	21,080	0	0	4,891	173,631	0	13,396
Department of Energy	2,885,693	99,836	1,000	607,071	828,643	0	0	6,458	1,342,685
Bonneville Power Administration	9,755	7,603	0	0	0	0	0	0	2,152
Civilian Radioactive Waste Management	52,922	52,922	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	93,449	0	0	0	0	0	0	0	93,449
Energy Efficiency and Renewable Energy	210,171	0	0	0	0	0	0	0	210,171

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Environmental Management	10,192	10,192	0	0	0	0	0	0	0
Fossil Energy	210,812	20,005	0	0	33,128	0	0	0	157,679
National Nuclear Security Administration	2,210,920	9,114	1,000	607,071	795,515	0	0	6,458	791,762
Defense Programs	2,076,191	0	0	599,772	717,397	0	0	0	759,022
Nonproliferation and Verification	134,729	9,114	1,000	7,299	78,118	0	0	6,458	32,740
Nuclear Energy	87,472	0	0	0	0	0	0	0	87,472
Department of Health and Human Services	13,140,032	194,988	10,683,524	95,934	170,307	700,099	176,585	712,024	406,571
Administration for Children and Families	14,445	0	0	0	0	0	14,445	0	0
Administration on Aging	2,931	0	0	0	0	0	2,931	0	0
Agency for Healthcare Research and Quality	293,180	0	166,115	29,475	0	568	26,257	70,765	0
Agency for Toxic Substances and Disease Registry	8,966	8,966	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	544,583	0	544,583	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	62,394	0	62,394	0	0	0	0	0	0
Food and Drug Administration	143,349	0	143,349	0	0	0	0	0	0
Health Resources and Services Administration	14,758	0	14,758	0	0	0	0	0	0
National Institutes of Health	12,028,583	186,022	9,752,325	66,459	170,307	699,531	106,109	641,259	406,571
Office of the Secretary	26,843	0	0	0	0	0	26,843	0	0
Office of the Assistant Secretary, Planning and Evaluation	26,843	0	0	0	0	0	26,843	0	0
Department of Homeland Security	526,336	752	172,553	20,605	102,935	9,302	28,317	78,156	113,716
Science and Technology Directorate	515,727	0	172,553	19,065	102,935	7,623	28,317	75,580	109,654
Transportation Security Administration	2,576	0	0	0	0	0	0	2,576	0
U.S. Coast Guard	7,065	752	0	1,540	0	711	0	0	4,062
U.S. Secret Service	968	0	0	0	0	968	0	0	0
Department of Housing and Urban Development	11,502	126	0	119	0	0	9,656	652	949
Department of the Interior	508,984	307,354	174,429	11,010	629	0	4,581	278	10,703
Bureau of Reclamation	3,085	0	247	0	0	0	0	278	2,560
Geological Survey	473,376	291,552	163,212	11,010	332	0	2,602	0	4,668
Minerals Management Service	28,869	14,186	9,421	0	0	0	1,787	0	3,475
National Park Service <sup>b</sup>	3,654	1,616	1,549	0	297	0	192	0	0
Department of Justice	34,883	0	0	0	0	0	25,883	9,000	0
Bureau of Prisons	2,744	0	0	0	0	0	2,744	0	0
Office of Justice Programs	32,139	0	0	0	0	0	23,139	9,000	0
Department of Labor	16,536	0	0	0	0	0	16,536	0	0
Bureau of Labor Statistics	9,200	0	0	0	0	0	9,200	0	0
Employee Benefits Security Administration	2,622	0	0	0	0	0	2,622	0	0
Employment and Training Administration	660	0	0	0	0	0	660	0	0
Occupational Safety and Health Administration	3,500	0	0	0	0	0	3,500	0	0
Office of the Secretary	339	0	0	0	0	0	339	0	0

TABLE 42. Federal obligations for applied research, by agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Pension Benefit Guaranty Corporation	215	0	0	0	0	0	215	0	0
Department of State	4,161	0	0	0	0	0	4,161	0	0
Department of Transportation	533,617	33,694	13,086	12,536	1,651	19,845	15,875	56,747	380,183
Federal Aviation Administration	136,620	19,768	8,314	0	0	19,746	0	18,614	70,178
Federal Highway Administration	286,823	13,926	151	4,970	0	99	4,396	33,319	229,962
Federal Motor Carrier Safety Administration	5,313	0	0	0	0	0	0	4,814	499
Federal Railroad Administration	40,823	0	0	0	0	0	0	0	40,823
Federal Transit Administration	3,559	0	0	0	0	0	3,559	0	0
National Highway Traffic Safety Administration	57,510	0	4,621	6,992	0	0	7,920	0	37,977
Pipeline and Hazardous Materials Safety Administration	2,225	0	0	574	1,651	0	0	0	0
Research and Innovative Technology Administration	744	0	0	0	0	0	0	0	744
Department of the Treasury	60,448	0	0	0	5,060	0	0	55,388	0
Bureau of Engraving and Printing	5,060	0	0	0	5,060	0	0	0	0
Internal Revenue Service	55,388	0	0	0	0	0	0	55,388	0
Department of Veterans Affairs	210,787	0	167,776	0	0	30,796	0	0	12,215
Other agencies									
Agency for International Development	197,000	3,674	141,219	0	0	0	51,432	675	0
Appalachian Regional Commission	985	0	0	0	0	0	985	0	0
Broadcasting Board of Governors	218	0	0	0	0	0	0	0	218
Environmental Protection Agency	400,489	157,951	155,682	13,828	11,234	0	2,277	5,598	53,919
Federal Communications Commission	7,123	0	0	375	1,350	0	3,133	0	2,265
Federal Trade Commission	1,606	0	0	0	0	0	1,606	0	0
Library of Congress	3,339	0	0	2,008	1,331	0	0	0	0
National Aeronautics and Space Administration	1,468,573	226,170	110,727	40,351	142,932	9,729	0	9,316	929,348
National Archives and Records Administration	120	50	0	0	70	0	0	0	0
National Science Foundation	286,575	2,072	2,424	63,693	6,653	844	19,132	18,934	172,823
Nuclear Regulatory Commission	71,385	0	0	0	0	0	0	0	71,385
Social Security Administration	67,842	0	0	0	0	0	67,842	0	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	27,598,082	1,445,355	13,021,291	1,876,089	1,666,988	804,406	747,696	1,290,679	6,745,578
Departments									
Department of Agriculture	1,123,769	11,411	875,697	15,948	49,897	383	121,586	3,339	45,508
Agricultural Marketing Service	6,628	0	6,628	0	0	0	0	0	0
Agricultural Research Service	438,614	1,930	402,955	570	29,212	0	0	0	3,947
Cooperative State Research, Education, and Extension Service	448,144	4,178	372,169	0	15,181	0	41,213	0	15,403
Economic Research Service	67,674	0	0	0	0	0	67,674	0	0
Foreign Agricultural Service	622	0	622	0	0	0	0	0	0
Forest Service	148,050	5,303	85,711	10,638	5,504	383	11,014	3,339	26,158
Grain Inspection, Packers, and Stockyards Administration	6,676	0	6,676	0	0	0	0	0	0
National Agricultural Statistics Service	4,740	0	0	4,740	0	0	0	0	0
Rural Business-Cooperative Service	2,621	0	936	0	0	0	1,685	0	0
Department of Commerce	698,119	290,126	47,588	79,363	87,963	348	14,894	11,635	166,202
Economic Development Administration	1,076	0	0	0	0	0	1,076	0	0
National Institute of Standards and Technology	313,382	1,098	5,394	72,824	74,431	0	48	6,373	153,214
National Oceanic and Atmospheric Administration	370,729	289,028	42,194	3,060	13,532	0	11,799	5,262	5,854
National Telecommunications and Information Administration	7,134	0	0	0	0	0	0	0	7,134
U.S. Census Bureau	5,798	0	0	3,479	0	348	1,971	0	0
Department of Defense	5,335,580	187,654	617,969	875,800	447,728	30,511	9,774	155,325	3,010,819
Defense agencies and activities	2,142,794	23,529	290,494	666,878	186,589	1,896	0	102,799	870,609
Chemical and Biological Defense	62,602	0	32,128	0	30,474	0	0	0	0
Defense Advanced Research Projects Agency	1,662,900	21,633	237,175	601,398	84,943	0	0	10,997	706,754
Defense Threat Reduction Agency	318,534	0	1,084	51,234	67,309	0	0	91,802	107,105
Office of the Secretary of Defense <sup>a</sup>	76,043	1,896	17,579	14,246	3,863	1,896	0	0	36,563
Special Operations Command	22,715	0	2,528	0	0	0	0	0	20,187
Department of the Air Force	1,086,858	23,620	29,039	51,578	142,756	12,108	0	16,817	810,940
Materiel Command	1,086,858	23,620	29,039	51,578	142,756	12,108	0	16,817	810,940
Department of the Army	1,244,829	13,063	241,372	122,901	109,774	16,507	9,774	35,709	695,729
Department of the Navy	861,099	127,442	57,064	34,443	8,609	0	0	0	633,541
Department of Education	201,751	0	19,209	0	0	4,915	163,684	0	13,943
Department of Energy	2,779,287	64,098	500	624,760	722,582	0	0	4,254	1,363,093
Bonneville Power Administration	8,479	6,144	0	0	40	0	0	378	1,917
Civilian Radioactive Waste Management	12,360	12,360	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	65,930	0	0	0	0	0	0	0	65,930
Energy Efficiency and Renewable Energy	342,343	0	0	0	0	0	0	0	342,343

TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Environmental Management	6,417	6,417	0	0	0	0	0	0	0
Fossil Energy	199,456	18,651	0	0	32,977	0	0	0	147,828
National Nuclear Security Administration	2,076,200	20,526	500	624,760	689,565	0	0	3,876	736,973
Defense Programs	1,950,870	0	0	617,955	619,469	0	0	0	713,446
Nonproliferation and Verification	125,330	20,526	500	6,805	70,096	0	0	3,876	23,527
Nuclear Energy	68,102	0	0	0	0	0	0	0	68,102
Department of Health and Human Services	13,186,717	197,888	10,720,088	96,294	171,227	703,875	173,089	715,489	408,767
Administration for Children and Families	14,748	0	0	0	0	0	14,748	0	0
Agency for Healthcare Research and Quality	293,196	0	166,124	29,477	0	568	26,258	70,769	0
Agency for Toxic Substances and Disease Registry	10,861	10,861	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	534,222	0	534,222	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	57,420	0	57,420	0	0	0	0	0	0
Food and Drug Administration	142,586	0	142,586	0	0	0	0	0	0
Health Resources and Services Administration	14,773	0	14,773	0	0	0	0	0	0
National Institutes of Health	12,093,510	187,027	9,804,963	66,817	171,227	703,307	106,682	644,720	408,767
Office of the Secretary	25,401	0	0	0	0	0	25,401	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,401	0	0	0	0	0	25,401	0	0
Department of Homeland Security	328,060	698	164,513	25,336	15,114	4,844	0	60,356	57,199
Science and Technology Directorate	320,101	0	164,513	23,615	15,114	2,999	0	60,356	53,504
U.S. Coast Guard	7,079	698	0	1,721	0	965	0	0	3,695
U.S. Secret Service	880	0	0	0	0	880	0	0	0
Department of Housing and Urban Development	12,750	40	0	132	0	0	10,703	823	1,052
Department of the Interior	482,696	284,985	169,572	9,761	1,900	0	5,515	274	10,689
Bureau of Reclamation	2,980	0	253	0	0	0	0	274	2,453
Geological Survey	453,292	271,764	162,277	9,761	1,900	0	3,795	0	3,795
Minerals Management Service	26,424	13,221	7,042	0	0	0	1,720	0	4,441
Department of Justice	31,863	0	0	0	0	0	26,863	5,000	0
Bureau of Prisons	2,763	0	0	0	0	0	2,763	0	0
Office of Justice Programs	29,100	0	0	0	0	0	24,100	5,000	0
Department of Labor	17,256	0	0	0	0	0	17,256	0	0
Bureau of Labor Statistics	8,300	0	0	0	0	0	8,300	0	0
Employee Benefits Security Administration	2,558	0	0	0	0	0	2,558	0	0
Employment and Training Administration	2,163	0	0	0	0	0	2,163	0	0
Occupational Safety and Health Administration	3,724	0	0	0	0	0	3,724	0	0
Office of the Secretary	290	0	0	0	0	0	290	0	0
Pension Benefit Guaranty Corporation	221	0	0	0	0	0	221	0	0
Department of State	4,338	0	0	0	0	0	4,338	0	0



TABLE 43. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2007

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Department of Transportation	553,038	37,997	13,822	11,986	2,231	17,857	15,657	70,969	382,519
Federal Aviation Administration	131,297	22,611	7,032	0	0	17,653	0	29,030	54,971
Federal Highway Administration	307,400	15,386	127	4,420	0	204	3,712	35,374	248,177
Federal Motor Carrier Safety Administration	8,698	0	2,042	0	0	0	0	6,565	91
Federal Railroad Administration	40,046	0	0	0	0	0	0	0	40,046
Federal Transit Administration	4,025	0	0	0	0	0	4,025	0	0
National Highway Traffic Safety Administration	57,510	0	4,621	6,992	0	0	7,920	0	37,977
Pipeline and Hazardous Materials Safety Administration	2,805	0	0	574	2,231	0	0	0	0
Research and Innovative Technology Administration	1,257	0	0	0	0	0	0	0	1,257
Department of the Treasury	61,474	0	0	0	6,732	0	0	54,742	0
Bureau of Engraving and Printing	6,743	0	0	0	6,732	0	0	11	0
Internal Revenue Service	54,731	0	0	0	0	0	0	54,731	0
Department of Veterans Affairs	211,800	0	0	0	0	30,944	0	168,582	12,274
Other agencies									
Agency for International Development	197,000	3,674	141,219	0	0	0	51,432	675	0
Appalachian Regional Commission	704	0	0	0	0	0	704	0	0
Environmental Protection Agency	356,257	140,506	138,488	12,301	9,993	0	2,025	4,980	47,964
Federal Communications Commission	7,734	0	0	375	1,200	0	3,789	0	2,370
Federal Trade Commission	1,684	0	0	0	0	0	1,684	0	0
Library of Congress	315	0	0	0	315	0	0	0	0
National Aeronautics and Space Administration	1,451,012	223,488	109,421	39,836	141,240	9,614	0	9,207	918,206
National Archives and Records Administration	120	50	0	0	70	0	0	0	0
National Science Foundation	378,835	2,740	3,205	84,197	8,796	1,115	25,292	25,029	228,461
Nuclear Regulatory Commission	76,512	0	0	0	0	0	0	0	76,512
Social Security Administration	99,411	0	0	0	0	0	99,411	0	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	26,988,023	1,451,116	12,800,514	1,734,663	1,667,061	809,681	748,959	1,228,812	6,547,217
Departments									
Department of Agriculture	946,341	9,257	730,351	14,641	42,572	332	110,147	2,892	36,149
Agricultural Marketing Service	6,801	0	6,801	0	0	0	0	0	0
Agricultural Research Service	418,822	1,843	384,772	544	27,894	0	0	0	3,769
Cooperative State Research, Education, and Extension Service	303,698	2,820	256,032	0	9,910	0	25,216	0	9,720
Economic Research Service	74,290	0	0	0	0	0	74,290	0	0
Foreign Agricultural Service	622	0	622	0	0	0	0	0	0
Forest Service	128,250	4,594	74,248	9,215	4,768	332	9,541	2,892	22,660
Grain Inspection, Packers, and Stockyards Administration	7,876	0	7,876	0	0	0	0	0	0
National Agricultural Statistics Service	4,882	0	0	4,882	0	0	0	0	0
Rural Business-Cooperative Service	1,100	0	0	0	0	0	1,100	0	0
Department of Commerce	731,066	325,621	53,681	77,629	86,353	302	14,964	11,692	160,824
National Institute of Standards and Technology	301,917	1,034	5,228	71,168	70,985	0	45	5,995	147,462
National Oceanic and Atmospheric Administration	416,984	324,587	48,453	3,442	15,368	0	13,209	5,697	6,228
National Telecommunications and Information Administration	7,134	0	0	0	0	0	0	0	7,134
U.S. Census Bureau	5,031	0	0	3,019	0	302	1,710	0	0
Department of Defense	4,601,823	156,081	491,630	775,826	508,786	26,793	15,120	97,070	2,530,517
Defense agencies and activities	2,091,033	21,668	325,397	602,474	285,173	1,515	7,300	67,057	780,449
Chemical and Biological Defense	260,175	0	100,301	0	159,874	0	0	0	0
Defense Advanced Research Projects Agency	1,545,520	20,153	220,537	560,222	79,129	0	0	10,244	655,235
Defense Threat Reduction Agency	197,129	0	671	31,707	41,655	0	0	56,813	66,283
Office of the Secretary of Defense <sup>a</sup>	64,910	1,515	1,515	10,545	4,515	1,515	7,300	0	38,005
Special Operations Command	23,299	0	2,373	0	0	0	0	0	20,926
Department of the Air Force	1,011,581	24,367	11,614	51,534	143,302	9,019	0	25,805	745,940
Materiel Command	1,011,581	24,367	11,614	51,534	143,302	9,019	0	25,805	745,940
Department of the Army	814,081	8,648	109,216	94,414	73,460	16,259	7,820	4,208	500,056
Department of the Navy	685,128	101,398	45,403	27,404	6,851	0	0	0	504,072
Department of Education	204,456	0	20,389	0	0	4,944	166,539	0	12,584
Department of Energy	3,075,484	82,726	500	592,543	681,447	0	0	4,040	1,714,228
Bonneville Power Administration	6,660	6,139	0	0	0	0	0	164	357
Civilian Radioactive Waste Management	28,882	28,882	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	57,185	0	0	0	0	0	0	0	57,185
Energy Efficiency and Renewable Energy	366,727	0	0	0	0	0	0	0	366,727
Environmental Management	6,417	6,417	0	0	0	0	0	0	0

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2008

(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Fossil Energy	208,850	20,762	0	0	34,170	0	0	0	153,918
National Nuclear Security Administration	2,192,546	20,526	500	592,543	647,277	0	0	3,876	927,824
Defense Programs	2,067,216	0	0	585,738	577,181	0	0	0	904,297
Nonproliferation and Verification	125,330	20,526	500	6,805	70,096	0	0	3,876	23,527
Nuclear Energy	208,217	0	0	0	0	0	0	0	208,217
Department of Health and Human Services	13,307,766	195,682	10,813,742	98,093	173,260	712,246	175,562	725,561	413,620
Administration for Children and Families	15,058	0	0	0	0	0	15,058	0	0
Agency for Healthcare Research and Quality	303,198	0	171,791	30,482	0	587	27,154	73,184	0
Agency for Toxic Substances and Disease Registry	6,434	6,434	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	534,222	0	534,222	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	33,700	0	33,700	0	0	0	0	0	0
Food and Drug Administration	137,839	0	137,839	0	0	0	0	0	0
Health Resources and Services Administration	14,790	0	14,790	0	0	0	0	0	0
National Institutes of Health	12,237,124	189,248	9,921,400	67,611	173,260	711,659	107,949	652,377	413,620
Office of the Secretary	25,401	0	0	0	0	0	25,401	0	0
Office of the Assistant Secretary, Planning and Evaluation	25,401	0	0	0	0	0	25,401	0	0
Department of Homeland Security	243,403	652	121,388	19,123	11,152	4,086	0	44,534	42,468
Science and Technology Directorate	236,189	0	121,388	17,424	11,152	2,213	0	44,534	39,478
U.S. Coast Guard	6,275	652	0	1,699	0	934	0	0	2,990
U.S. Secret Service	939	0	0	0	0	939	0	0	0
Department of Housing and Urban Development	13,883	52	0	143	0	0	11,654	888	1,146
Department of the Interior	482,248	283,901	174,381	8,224	1,900	0	5,027	290	8,525
Bureau of Reclamation	3,151	0	268	0	0	0	0	290	2,593
Geological Survey	453,092	269,844	166,728	8,224	1,900	0	3,198	0	3,198
Minerals Management Service	26,005	14,057	7,385	0	0	0	1,829	0	2,734
Department of Justice	28,093	0	0	0	0	0	26,093	2,000	0
Bureau of Prisons	2,793	0	0	0	0	0	2,793	0	0
Office of Justice Programs	25,300	0	0	0	0	0	23,300	2,000	0
Department of Labor	16,615	0	0	0	0	0	16,615	0	0
Bureau of Labor Statistics	8,300	0	0	0	0	0	8,300	0	0
Employee Benefits Security Administration	2,577	0	0	0	0	0	2,577	0	0
Employment and Training Administration	1,450	0	0	0	0	0	1,450	0	0
Occupational Safety and Health Administration	3,810	0	0	0	0	0	3,810	0	0
Office of the Secretary	250	0	0	0	0	0	250	0	0
Pension Benefit Guaranty Corporation	228	0	0	0	0	0	228	0	0
Department of State	4,757	0	0	0	0	0	4,757	0	0
Department of Transportation	584,852	43,935	12,431	13,991	1,745	20,102	17,425	72,162	403,061

TABLE 44. Preliminary federal obligations for applied research, by agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Federal Aviation Administration	140,000	27,643	6,780	0	0	19,905	0	29,404	56,268
Federal Highway Administration	332,461	16,292	151	5,495	0	197	4,385	36,487	269,454
Federal Motor Carrier Safety Administration	6,577	0	0	0	0	0	0	6,271	306
Federal Railroad Administration	27,701	0	0	0	0	0	0	0	27,701
Federal Transit Administration	3,841	0	0	0	0	0	3,841	0	0
National Highway Traffic Safety Administration	65,699	0	5,500	8,000	0	0	9,199	0	43,000
Pipeline and Hazardous Materials Safety Administration	2,241	0	0	496	1,745	0	0	0	0
Research and Innovative Technology Administration	6,332	0	0	0	0	0	0	0	6,332
Department of the Treasury	68,418	0	0	0	7,407	0	0	61,011	0
Bureau of Engraving and Printing	7,418	0	0	0	7,407	0	0	11	0
Internal Revenue Service	61,000	0	0	0	0	0	0	61,000	0
Department of Veterans Affairs	210,275	0	0	0	0	30,722	0	167,368	12,185
Other agencies									
Agency for International Development	197,000	3,674	141,219	0	0	0	51,432	675	0
Appalachian Regional Commission	705	0	0	0	0	0	705	0	0
Environmental Protection Agency	346,679	136,729	134,764	11,971	9,724	0	1,971	4,846	46,674
Federal Communications Commission	6,308	0	0	525	750	0	2,888	0	2,145
Federal Trade Commission	1,974	0	0	0	0	0	1,974	0	0
Library of Congress	345	0	0	0	345	0	0	0	0
National Aeronautics and Space Administration	1,363,481	210,006	102,821	37,432	132,720	9,034	0	8,651	862,817
National Archives and Records Administration	120	50	0	0	70	0	0	0	0
National Science Foundation	380,302	2,750	3,217	84,522	8,830	1,120	25,390	25,132	229,341
Nuclear Regulatory Commission	70,933	0	0	0	0	0	0	0	70,933
Social Security Administration	100,696	0	0	0	0	0	100,696	0	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies	1,581,132	500,650	209,329	329,385	541,768	1,835,560	105,516	405,692	1,090,992	233,360
Departments										
Department of Agriculture	13,632	12,418	1,214	0	0	46,661	0	43,827	2,834	0
Agricultural Research Service	2,047	2,001	46	0	0	30,991	0	29,548	1,443	0
Cooperative State Research, Education, and Extension Service	6,636	6,636	0	0	0	10,535	0	10,535	0	0
Forest Service	4,949	3,781	1,168	0	0	5,135	0	3,744	1,391	0
Department of Commerce	365,397	150,899	1,787	163,998	48,713	81,862	0	19,728	61,792	342
National Institute of Standards and Technology	1,053	631	138	100	184	67,095	0	18,171	48,582	342
National Oceanic and Atmospheric Administration	364,344	150,268	1,649	163,898	48,529	14,767	0	1,557	13,210	0
Department of Defense	175,436	32,512	17,075	98,263	27,586	434,242	9,037	56,367	244,273	124,565
Defense agencies and activities	15,755	2,670	0	6,662	6,423	164,330	0	21,585	78,410	64,335
Chemical and Biological Defense	0	0	0	0	0	38,588	0	1,597	0	36,991
Defense Advanced Research Projects Agency	14,075	1,830	0	5,822	6,423	55,266	0	18,565	9,357	27,344
Defense Threat Reduction Agency	0	0	0	0	0	67,995	0	0	67,995	0
Office of the Secretary of Defense <sup>a</sup>	1,680	840	0	840	0	2,481	0	1,423	1,058	0
Department of the Air Force	30,797	12,155	16,456	0	2,186	139,725	9,037	11,288	119,400	0
Materiel Command	30,797	12,155	16,456	0	2,186	139,725	9,037	11,288	119,400	0
Department of the Army	15,910	9,291	619	0	6,000	122,554	0	23,494	46,463	52,597
Department of the Navy	112,974	8,396	0	91,601	12,977	7,633	0	0	0	7,633
Department of Energy	99,836	55,279	6,662	0	37,895	828,643	0	62,111	686,456	80,076
Bonneville Power Administration	7,603	0	0	0	7,603	0	0	0	0	0
Civilian Radioactive Waste Management	52,922	52,922	0	0	0	0	0	0	0	0
Environmental Management	10,192	0	0	0	10,192	0	0	0	0	0
Fossil Energy	20,005	0	0	0	20,005	33,128	0	33,128	0	0
National Nuclear Security Administration	9,114	2,357	6,662	0	95	795,515	0	28,983	686,456	80,076
Defense Programs	0	0	0	0	0	717,397	0	0	668,372	49,025
Nonproliferation and Verification	9,114	2,357	6,662	0	95	78,118	0	28,983	18,084	31,051
Department of Health and Human Services	194,988	0	0	0	194,988	170,307	0	161,132	0	9,175
Agency for Toxic Substances and Disease Registry	8,966	0	0	0	8,966	0	0	0	0	0
National Institutes of Health	186,022	0	0	0	186,022	170,307	0	161,132	0	9,175
Department of Homeland Security	752	0	0	0	752	102,935	0	44,516	57,499	920
Science and Technology Directorate	0	0	0	0	0	102,935	0	44,516	57,499	920
U.S. Coast Guard	752	0	0	0	752	0	0	0	0	0
Department of Housing and Urban Development	126	0	0	0	126	0	0	0	0	0
Department of the Interior	307,354	1,384	164,263	8,850	132,857	629	0	0	0	629
Geological Survey	291,552	0	163,475	0	128,077	332	0	0	0	332

TABLE 45. Federal obligations for applied research in environmental and physical sciences, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
Minerals Management Service	14,186	1,069	687	8,830	3,600	0	0	0	0	0
National Park Service <sup>b</sup>	1,616	315	101	20	1,180	297	0	0	0	297
Department of Transportation	33,694	20,863	0	2,678	10,153	1,651	0	0	0	1,651
Federal Aviation Administration	19,768	19,768	0	0	0	0	0	0	0	0
Federal Highway Administration	13,926	1,095	0	2,678	10,153	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	0	0	0	0	0	1,651	0	0	0	1,651
Department of the Treasury	0	0	0	0	0	5,060	0	15	0	5,045
Bureau of Engraving and Printing	0	0	0	0	0	5,060	0	15	0	5,045
Other agencies										
Agency for International Development	3,674	0	0	0	3,674	0	0	0	0	0
Environmental Protection Agency	157,951	71,022	2,928	12,151	71,850	11,234	11	10,093	0	1,130
Federal Communications Commission	0	0	0	0	0	1,350	0	0	1,350	0
Library of Congress	0	0	0	0	0	1,331	0	1,331	0	0
National Aeronautics and Space Administration	226,170	155,996	15,330	41,762	13,082	142,932	96,424	4,871	35,048	6,589
National Archives and Records Administration	50	0	0	0	50	70	0	50	20	0
National Science Foundation	2,072	277	70	1,683	42	6,653	44	1,651	1,720	3,238

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	12,993,280	593,859	5,991,076	342,268	5,137,828	928,249	802,442	2,346	36,035	764,061
Departments										
Department of Agriculture	855,286	524,158	130,936	184,123	16,069	0	357	0	0	357
Agricultural Marketing Service	6,337	6,337	0	0	0	0	0	0	0	0
Agricultural Research Service	427,494	332,102	29,781	58,026	7,585	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	331,267	174,191	85,871	65,585	5,620	0	0	0	0	0
Foreign Agricultural Service	622	622	0	0	0	0	0	0	0	0
Forest Service	79,979	1,319	15,284	60,512	2,864	0	357	0	0	357
Grain Inspection, Packers, and Stockyards Administration	7,112	7,112	0	0	0	0	0	0	0	0
Rural Business-Cooperative Service	2,475	2,475	0	0	0	0	0	0	0	0
Department of Commerce	75,529	4,003	47,864	14,539	1,080	8,043	360	0	0	360
National Institute of Standards and Technology	4,308	913	2,894	203	238	60	0	0	0	0
National Oceanic and Atmospheric Administration	71,221	3,090	44,970	14,336	842	7,983	0	0	0	0
U.S. Census Bureau	0	0	0	0	0	0	360	0	0	360
Department of Defense	418,965	1,420	112,999	10,729	233,948	59,869	26,219	1,426	840	23,953
Defense agencies and activities	216,705	840	73,176	8,369	128,372	5,948	1,680	840	840	0
Chemical and Biological Defense	37,155	0	1,597	0	35,558	0	0	0	0	0
Defense Advanced Research Projects Agency	154,030	0	69,739	8,369	71,544	4,378	0	0	0	0
Defense Threat Reduction Agency	2,930	0	0	0	2,930	0	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	21,020	840	1,840	0	18,340	0	1,680	840	840	0
Special Operations Command	1,570	0	0	0	0	1,570	0	0	0	0
Department of the Air Force	37,036	0	25,350	0	0	11,686	8,706	0	0	8,706
Materiel Command	37,036	0	25,350	0	0	11,686	8,706	0	0	8,706
Department of the Army	114,638	580	8,825	2,360	96,417	6,456	15,833	586	0	15,247
Department of the Navy	50,586	0	5,648	0	9,159	35,779	0	0	0	0
Department of Education	21,080	0	0	0	0	21,080	4,891	0	0	4,891
Department of Energy	1,000	0	1,000	0	0	0	0	0	0	0
National Nuclear Security Administration	1,000	0	1,000	0	0	0	0	0	0	0
Nonproliferation and Verification	1,000	0	1,000	0	0	0	0	0	0	0
Department of Health and Human Services	10,683,524	0	5,302,063	0	4,639,530	741,931	700,099	0	32	700,067
Agency for Healthcare Research and Quality	166,115	0	50	0	165,008	1,057	568	0	32	536
Centers for Disease Control and Prevention	544,583	0	0	0	544,583	0	0	0	0	0
Centers for Medicare and Medicaid Services	62,394	0	0	0	0	62,394	0	0	0	0
Food and Drug Administration	143,349	0	143,349	0	0	0	0	0	0	0
Health Resources and Services Administration	14,758	0	0	0	9,758	5,000	0	0	0	0

TABLE 46. Federal obligations for applied research in life sciences and psychology, by agency and detailed field: FY 2006

(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
National Institutes of Health	9,752,325	0	5,158,664	0	3,920,181	673,480	699,531	0	0	699,531
Department of Homeland Security	172,553	4,429	161,626	1,498	5,000	0	9,302	920	5,766	2,616
Science and Technology Directorate	172,553	4,429	161,626	1,498	5,000	0	7,623	920	5,055	1,648
U.S. Coast Guard	0	0	0	0	0	0	711	0	711	0
U.S. Secret Service	0	0	0	0	0	0	968	0	0	968
Department of the Interior	174,429	0	87,202	87,212	0	15	0	0	0	0
Bureau of Reclamation	247	0	0	247	0	0	0	0	0	0
Geological Survey	163,212	0	86,502	76,710	0	0	0	0	0	0
Minerals Management Service	9,421	0	0	9,421	0	0	0	0	0	0
National Park Service <sup>c</sup>	1,549	0	700	834	0	15	0	0	0	0
Department of Transportation	13,086	0	96	55	8,314	4,621	19,845	0	19,746	99
Federal Aviation Administration	8,314	0	0	0	8,314	0	19,746	0	19,746	0
Federal Highway Administration	151	0	96	55	0	0	99	0	0	99
National Highway Traffic Safety Administration	4,621	0	0	0	0	4,621	0	0	0	0
Department of Veterans Affairs	167,776	0	0	0	167,776	0	30,796	0	0	30,796
Other agencies										
Agency for International Development	141,219	58,764	0	0	0	82,455	0	0	0	0
Environmental Protection Agency	155,682	638	110,466	39,112	674	4,792	0	0	0	0
National Aeronautics and Space Administration	110,727	447	36,012	3,388	65,437	5,443	9,729	0	8,807	922
National Science Foundation	2,424	0	812	1,612	0	0	844	0	844	0

nec = not elsewhere classified.

<sup>a</sup> Excluding environmental biology.<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.<sup>c</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 47. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Political			Social sciences, nec
							Economics	science	Sociology	
All agencies	1,606,707	1,316,889	150,534	139,284	742,919	982	156,301	33,562	124,940	427,134
Departments										
Department of Agriculture	15,157	200	14,957	0	115,429	231	101,802	0	10,280	3,116
Agricultural Research Service	605	0	605	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	32,861	0	23,478	0	9,383	0
Economic Research Service	0	0	0	0	67,504	0	67,504	0	0	0
Forest Service	9,926	200	9,726	0	13,394	231	9,150	0	897	3,116
National Agricultural Statistics Service	4,626	0	4,626	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	1,670	0	1,670	0	0	0
Department of Commerce	75,100	65,094	6,288	3,718	10,296	0	1,242	1,124	562	7,368
Economic Development Administration	0	0	0	0	233	0	233	0	0	0
National Institute of Standards and Technology	68,196	60,848	3,630	3,718	46	0	46	0	0	0
National Oceanic and Atmospheric Administration	3,303	2,202	1,101	0	7,976	0	963	1,124	562	5,327
U.S. Census Bureau	3,601	2,044	1,557	0	2,041	0	0	0	0	2,041
Department of Defense	648,920	526,705	43,334	78,881	15,562	580	1,512	3,275	391	9,804
Defense agencies and activities	436,329	385,306	26,428	24,595	0	0	0	0	0	0
Defense Advanced Research Projects Agency	391,279	355,320	23,906	12,053	0	0	0	0	0	0
Defense Threat Reduction Agency	40,006	27,464	0	12,542	0	0	0	0	0	0
Office of the Secretary of Defense <sup>a</sup>	5,044	2,522	2,522	0	0	0	0	0	0	0
Department of the Air Force	49,909	31,522	10,675	7,712	0	0	0	0	0	0
Materiel Command	49,909	31,522	10,675	7,712	0	0	0	0	0	0
Department of the Army	132,149	79,344	6,231	46,574	15,562	580	1,512	3,275	391	9,804
Department of the Navy	30,533	30,533	0	0	0	0	0	0	0	0
Department of Education	0	0	0	0	173,631	0	0	0	0	173,631
Department of Energy	607,071	600,147	2,804	4,120	0	0	0	0	0	0
National Nuclear Security Administration	607,071	600,147	2,804	4,120	0	0	0	0	0	0
Defense Programs	599,772	599,772	0	0	0	0	0	0	0	0
Nonproliferation and Verification	7,299	375	2,804	4,120	0	0	0	0	0	0
Department of Health and Human Services	95,934	16,370	66,459	13,105	176,585	27	13,776	53	599	162,130
Administration for Children and Families	0	0	0	0	14,445	0	0	0	0	14,445
Administration on Aging	0	0	0	0	2,931	0	0	0	0	2,931
Agency for Healthcare Research and Quality	29,475	16,370	0	13,105	26,257	27	13,776	53	599	11,802
National Institutes of Health	66,459	0	66,459	0	106,109	0	0	0	0	106,109
Office of the Secretary	0	0	0	0	26,843	0	0	0	0	26,843

TABLE 47. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Political science			Social sciences, nec
							Economics	Sociology		
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	26,843	0	0	0	0	26,843
Department of Homeland Security	20,605	7,678	4,512	8,415	28,317	0	3,996	19,560	3,841	920
Science and Technology Directorate	19,065	7,678	4,512	6,875	28,317	0	3,996	19,560	3,841	920
U.S. Coast Guard	1,540	0	0	1,540	0	0	0	0	0	0
Department of Housing and Urban Development	119	0	0	119	9,656	0	8,705	34	386	531
Department of the Interior	11,010	8,799	2,211	0	4,581	0	1,030	0	2,199	1,352
Geological Survey	11,010	8,799	2,211	0	2,602	0	0	0	1,474	1,128
Minerals Management Service	0	0	0	0	1,787	0	1,030	0	725	32
National Park Service <sup>b</sup>	0	0	0	0	192	0	0	0	0	192
Department of Justice	0	0	0	0	25,883	0	0	0	4,945	20,938
Bureau of Prisons	0	0	0	0	2,744	0	0	0	0	2,744
Office of Justice Programs	0	0	0	0	23,139	0	0	0	4,945	18,194
Department of Labor	0	0	0	0	16,536	0	7,336	0	0	9,200
Bureau of Labor Statistics	0	0	0	0	9,200	0	0	0	0	9,200
Employee Benefits Security Administration	0	0	0	0	2,622	0	2,622	0	0	0
Employment and Training Administration	0	0	0	0	660	0	660	0	0	0
Occupational Safety and Health Administration	0	0	0	0	3,500	0	3,500	0	0	0
Office of the Secretary	0	0	0	0	339	0	339	0	0	0
Pension Benefit Guaranty Corporation	0	0	0	0	215	0	215	0	0	0
Department of State	0	0	0	0	4,161	0	666	707	291	2,497
Department of Transportation	12,536	9,082	0	3,454	15,875	0	180	2,897	942	11,856
Federal Highway Administration	4,970	1,516	0	3,454	4,396	0	180	2,897	942	377
Federal Transit Administration	0	0	0	0	3,559	0	0	0	0	3,559
National Highway Traffic Safety Administration	6,992	6,992	0	0	7,920	0	0	0	0	7,920
Pipeline and Hazardous Materials Safety Administration	574	574	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	0	0	0	0	51,432	0	6,449	5,021	31,227	8,735
Appalachian Regional Commission	0	0	0	0	985	0	492	0	0	493
Environmental Protection Agency	13,828	5,358	7,755	715	2,277	0	0	0	0	2,277
Federal Communications Commission	375	375	0	0	3,133	0	3,133	0	0	0
Federal Trade Commission	0	0	0	0	1,606	0	1,606	0	0	0
Library of Congress	2,008	2,008	0	0	0	0	0	0	0	0

TABLE 47. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political		Social sciences, nec
								science	Sociology	
National Aeronautics and Space Administration	40,351	12,049	1,545	26,757	0	0	0	0	0	0
National Science Foundation	63,693	63,024	669	0	19,132	144	4,376	891	1,435	12,286
Social Security Administration	0	0	0	0	67,842	0	0	0	67,842	0

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies	6,314,150	986,517	418,553	226,978	285,238	830,334	227,699	438,607	2,900,224
Departments									
Department of Agriculture	38,219	0	0	3,636	4,281	432	2,879	0	26,991
Agricultural Research Service	4,188	0	0	2,095	651	372	465	0	605
Cooperative State Research, Education, and Extension Service	9,621	0	0	0	0	0	0	0	9,621
Forest Service	24,410	0	0	1,541	3,630	60	2,414	0	16,765
Department of Commerce	148,158	0	0	3,550	29,653	48,992	2,456	32,690	30,817
National Institute of Standards and Technology	135,814	0	0	3,550	26,282	40,110	2,456	32,690	30,726
National Oceanic and Atmospheric Administration	5,664	0	0	0	3,371	2,202	0	0	91
National Telecommunications and Information Administration	6,680	0	0	0	0	6,680	0	0	0
Department of Defense	2,617,397	396,166	112,513	30,988	30,353	619,604	173,653	308,005	946,115
Defense agencies and activities	651,410	65,600	0	3,506	1,265	127,348	10,488	108,519	334,684
Defense Advanced Research Projects Agency	457,637	65,600	0	2,241	0	112,716	9,223	108,519	159,338
Defense Threat Reduction Agency	133,968	0	0	0	0	13,367	0	0	120,601
Office of the Secretary of Defense <sup>a</sup>	35,642	0	0	1,265	1,265	1,265	1,265	0	30,582
Special Operations Command	24,163	0	0	0	0	0	0	0	24,163
Department of the Air Force	717,236	242,759	103,541	7,647	8,548	101,151	24,347	75,171	154,072
Materiel Command	717,236	242,759	103,541	7,647	8,548	101,151	24,347	75,171	154,072
Department of the Army	687,132	50,642	576	19,835	20,540	237,149	104,469	69,595	184,326
Department of the Navy	561,619	37,165	8,396	0	0	153,956	34,349	54,720	273,033
Department of Education	13,396	0	0	0	0	0	0	0	13,396
Department of Energy	1,342,685	0	500	156,412	43,525	132,709	344	2,620	1,006,575
Bonneville Power Administration	2,152	0	0	0	0	1,610	0	0	542
Electricity Delivery and Energy Restoration	93,449	0	0	0	0	93,449	0	0	0
Energy Efficiency and Renewable Energy	210,171	0	0	0	41,720	27,700	244	274	140,233
Fossil Energy	157,679	0	0	156,412	1,267	0	0	0	0
National Nuclear Security Administration	791,762	0	500	0	538	9,950	100	2,346	778,328
Defense Programs	759,022	0	0	0	0	0	0	0	759,022
Nonproliferation and Verification	32,740	0	500	0	538	9,950	100	2,346	19,306
Nuclear Energy	87,472	0	0	0	0	0	0	0	87,472
Department of Health and Human Services	406,571	0	0	0	0	0	0	30,820	375,751
National Institutes of Health	406,571	0	0	0	0	0	0	30,820	375,751
Department of Homeland Security	113,716	1,498	0	1,241	7,142	2,400	2,282	2,240	96,913
Science and Technology Directorate	109,654	1,498	0	1,241	6,902	920	1,497	1,840	95,756
U.S. Coast Guard	4,062	0	0	0	240	1,480	785	400	1,157

TABLE 48. Federal obligations for applied research in engineering, by agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
Department of Housing and Urban Development	949	0	0	0	0	0	0	0	949
Department of the Interior	10,703	0	0	1,500	5,010	984	955	538	1,716
Bureau of Reclamation	2,560	0	0	710	1,079	247	339	185	0
Geological Survey	4,668	0	0	0	3,931	737	0	0	0
Minerals Management Service	3,475	0	0	790	0	0	616	353	1,716
Department of Transportation	380,183	0	0	0	143,782	0	37,977	58,996	139,428
Federal Aviation Administration	70,178	0	0	0	15,823	0	0	54,355	0
Federal Highway Administration	229,962	0	0	0	127,959	0	0	4,641	97,362
Federal Motor Carrier Safety Administration	499	0	0	0	0	0	0	0	499
Federal Railroad Administration	40,823	0	0	0	0	0	0	0	40,823
National Highway Traffic Safety Administration	37,977	0	0	0	0	0	37,977	0	0
Research and Innovative Technology Administration	744	0	0	0	0	0	0	0	744
Department of Veterans Affairs	12,215	0	0	0	0	0	0	0	12,215
Other agencies									
Broadcasting Board of Governors	218	0	0	0	0	0	0	0	218
Environmental Protection Agency	53,919	0	0	17,315	3,139	0	893	666	31,906
Federal Communications Commission	2,265	0	0	0	0	2,265	0	0	0
National Aeronautics and Space Administration	929,348	588,853	305,540	254	16	8,141	5,443	1,897	19,204
National Science Foundation	172,823	0	0	12,082	18,337	14,807	817	135	126,645
Nuclear Regulatory Commission	71,385	0	0	0	0	0	0	0	71,385

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 49. Federal obligations for development, by agency and performer: FY 2006  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	56,610,153	13,301,599	37,716,609	473,993	1,526,927	1,656,109	551,249	787,414	201,689	394,564
Departments										
Department of Agriculture	183,119	162,823	0	0	19,060	0	896	0	25	315
Agricultural Research Service	113,494	101,181	0	0	11,077	0	896	0	25	315
Animal and Plant Health Inspection Service	25,542	17,559	0	0	7,983	0	0	0	0	0
Forest Service	44,083	44,083	0	0	0	0	0	0	0	0
Department of Commerce	101,483	58,818	23,803	0	14,633	1,620	2,088	0	334	187
National Institute of Standards and Technology	30,263	7,307	22,548	0	53	0	355	0	0	0
National Oceanic and Atmospheric Administration	55,097	35,388	1,255	0	14,580	1,620	1,733	0	334	187
U.S. Census Bureau	16,123	16,123	0	0	0	0	0	0	0	0
Department of Defense	48,534,583	11,685,307	34,352,553	159,229	765,859	360,363	236,656	570,493	15,162	388,961
Defense agencies and activities	12,562,995	2,573,119	9,109,941	98,949	285,483	180,334	27,429	103,861	57	183,822
Chemical and Biological Defense	487,871	287,527	138,826	1,666	21,854	13,182	1,994	6,608	0	16,214
Defense Advanced Research Projects Agency	1,200,950	137,922	881,595	15,515	85,425	59,338	8,554	9,114	0	3,487
Defense Business Transformation Agency	32,178	12,340	19,838	0	0	0	0	0	0	0
Defense Contract Management Agency	13,884	1,085	12,799	0	0	0	0	0	0	0
Defense Information Systems Agency	272,233	85,776	172,057	4,050	404	0	0	9,938	0	8
Defense Logistics Agency	204,119	90,501	93,705	0	17,708	0	651	1,495	0	59
Defense Security Service	16,609	1	16,608	0	0	0	0	0	0	0
Defense Technical Information Center	47,594	40,844	6,750	0	0	0	0	0	0	0
Defense Threat Reduction Agency	126,500	50,912	68,967	2,593	229	1,790	141	369	0	1,499
Joint Staff	82,085	79,948	0	0	0	2,137	0	0	0	0
Missile Defense Agency	7,917,059	1,186,449	6,426,555	47,111	44,563	41,994	4,233	37,383	0	128,771
Office of the Secretary of Defense <sup>b</sup>	1,618,354	526,787	820,952	28,014	113,048	44,902	11,856	38,954	57	33,784
Special Operations Command	543,559	73,027	451,289	0	2,252	16,991	0	0	0	0
Department of the Air Force	8,752,655	974,443	7,321,846	30,644	26,879	102,758	3,171	278,053	3,660	11,201
Materiel Command	5,474,543	759,824	4,555,765	2,824	25,759	13,639	2,806	102,826	0	11,100
Space Command	3,278,112	214,619	2,766,081	27,820	1,120	89,119	365	175,227	3,660	101
Department of the Army	9,865,661	2,812,123	6,637,764	13,064	74,632	25,832	88,895	33,429	0	179,922
Department of the Navy	17,174,332	5,269,516	11,202,792	16,572	367,039	51,439	117,161	124,352	11,445	14,016
Operational Test and Evaluation, Director	178,940	56,106	80,210	0	11,826	0	0	30,798	0	0
Department of Defense advanced technology	5,865,682	1,905,944	3,247,696	45,875	376,986	124,789	93,755	38,218	50	32,369
Defense agencies and activities	2,699,674	661,841	1,589,578	38,406	217,658	118,023	20,202	26,817	50	27,099
Chemical and Biological Defense	142,756	107,284	10,945	0	11,095	11,658	0	1,077	0	697
Defense Advanced Research Projects Agency	1,100,543	100,713	818,618	15,515	85,425	59,338	8,333	9,114	0	3,487
Defense Logistics Agency	155,251	62,736	74,990	0	16,815	0	651	0	0	59
Defense Threat Reduction Agency	121,767	50,911	64,235	2,593	229	1,790	141	369	0	1,499

TABLE 49. Federal obligations for development, by agency and performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Missile Defense Agency	148,651	26,870	106,095	676	8,440	3,790	60	2,500	0	220
Office of the Secretary of Defense <sup>b</sup>	885,822	293,862	389,276	19,622	95,654	41,447	11,017	13,757	50	21,137
Special Operations Command	144,884	19,465	125,419	0	0	0	0	0	0	0
Department of the Air Force	640,103	160,890	453,562	704	19,121	1,233	599	3,994	0	0
Materiel Command	640,103	160,890	453,562	704	19,121	1,233	599	3,994	0	0
Department of the Army	1,580,316	844,263	652,086	6,502	39,197	4,182	26,167	3,233	0	4,686
Department of the Navy	945,589	238,950	552,470	263	101,010	1,351	46,787	4,174	0	584
Department of Defense major systems	42,668,901	9,779,363	31,104,857	113,354	388,873	235,574	142,901	532,275	15,112	356,592
Defense agencies and activities	9,863,321	1,911,278	7,520,363	60,543	67,825	62,311	7,227	77,044	7	156,723
Chemical and Biological Defense	345,115	180,243	127,881	1,666	10,759	1,524	1,994	5,531	0	15,517
Defense Advanced Research Projects Agency	100,407	37,209	62,977	0	0	0	221	0	0	0
Defense Business Transformation Agency	32,178	12,340	19,838	0	0	0	0	0	0	0
Defense Contract Management Agency	13,884	1,085	12,799	0	0	0	0	0	0	0
Defense Information Systems Agency	272,233	85,776	172,057	4,050	404	0	0	9,938	0	8
Defense Logistics Agency	48,868	27,765	18,715	0	893	0	0	1,495	0	0
Defense Security Service	16,609	1	16,608	0	0	0	0	0	0	0
Defense Technical Information Center	47,594	40,844	6,750	0	0	0	0	0	0	0
Defense Threat Reduction Agency	4,733	1	4,732	0	0	0	0	0	0	0
Joint Staff	82,085	79,948	0	0	0	2,137	0	0	0	0
Missile Defense Agency	7,768,408	1,159,579	6,320,460	46,435	36,123	38,204	4,173	34,883	0	128,551
Office of the Secretary of Defense <sup>b</sup>	732,532	232,925	431,676	8,392	17,394	3,455	839	25,197	7	12,647
Special Operations Command	398,675	53,562	325,870	0	2,252	16,991	0	0	0	0
Department of the Air Force	8,112,552	813,553	6,868,284	29,940	7,758	101,525	2,572	274,059	3,660	11,201
Materiel Command	4,834,440	598,934	4,102,203	2,120	6,638	12,406	2,207	98,832	0	11,100
Space Command	3,278,112	214,619	2,766,081	27,820	1,120	89,119	365	175,227	3,660	101
Department of the Army	8,285,345	1,967,860	5,985,678	6,562	35,435	21,650	62,728	30,196	0	175,236
Department of the Navy	16,228,743	5,030,566	10,650,322	16,309	266,029	50,088	70,374	120,178	11,445	13,432
Operational Test and Evaluation, Director	178,940	56,106	80,210	0	11,826	0	0	30,798	0	0
Department of Education	121,440	5,286	9,442	0	75,329	0	31,230	0	153	0
Department of Energy	1,841,724	198,784	801,647	281,638	51,672	332,723	52,322	117,597	4,459	882
Bonneville Power Administration	979	979	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	40,050	1,266	12,912	7,178	4,546	2,191	757	10,598	602	0
Energy Efficiency and Renewable Energy	219,321	85,695	0	8,235	22,537	20,265	6,232	76,357	0	0
Environmental Management	23,784	1	0	308	23,360	9	0	106	0	0
Fossil Energy	217,549	87,698	51,102	0	0	15,725	39,873	18,412	3,857	882
National Nuclear Security Administration	1,338,553	23,144	737,633	265,917	1,229	294,533	5,460	10,637	0	0
Defense Programs	517,393	21,243	87,966	167,138	0	236,069	4,977	0	0	0
Naval Reactors	720,370	1	647,876	71,496	0	430	483	84	0	0

TABLE 49. Federal obligations for development, by agency and performer: FY 2006  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry	Universities	University	Other	Nonprofit	State, local	Foreign
			FFRDC	and colleges	FFRDC	nonprofits	FFRDC	governments		
Nonproliferation and Verification	100,790	1,900	1,791	27,283	1,229	58,034	0	10,553	0	0
Nuclear Energy	1,488	1	0	0	0	0	0	1,487	0	0
Department of Health and Human Services	86,006	25,496	1,200	0	11,759	0	13,953	0	33,598	0
Agency for Healthcare Research and Quality	25,494	25,494	0	0	0	0	0	0	0	0
Health Resources and Services Administration	6,236	1	0	0	248	0	5,008	0	979	0
Substance Abuse and Mental Health Services Administration	54,276	1	1,200	0	11,511	0	8,945	0	32,619	0
Department of Homeland Security	1,119,231	385,773	359,893	33,108	15,764	177,281	33,008	94,573	19,831	0
Science and Technology Directorate	1,095,988	376,853	347,405	32,908	15,504	177,091	31,823	94,573	19,831	0
Transportation Security Administration	9,090	1	8,699	200	0	190	0	0	0	0
U.S. Coast Guard	14,153	8,919	3,789	0	260	0	1,185	0	0	0
Department of Housing and Urban Development	21,968	13,290	7,185	0	0	0	1,493	0	0	0
Department of the Interior	51,950	40,015	2,729	0	2,756	0	1,941	0	4,509	0
Bureau of Reclamation	5,729	1,824	1,437	0	458	0	1,941	0	69	0
Geological Survey	46,026	38,083	1,292	0	2,211	0	0	0	4,440	0
National Park Service <sup>c</sup>	195	108	0	0	87	0	0	0	0	0
Department of Justice	74,977	45,774	2,441	0	2,809	0	5,809	2,102	16,042	0
Bureau of Prisons	9,444	1,099	0	0	0	0	0	0	8,345	0
Federal Bureau of Investigation	34,295	34,295	0	0	0	0	0	0	0	0
Office of Justice Programs	31,238	10,380	2,441	0	2,809	0	5,809	2,102	7,697	0
Department of Labor	65,120	3,356	4,768	0	46,334	0	8,350	0	2,312	0
Employment and Training Administration	63,471	3,025	3,450	0	46,334	0	8,350	0	2,312	0
Pension Benefit Guaranty Corporation	1,649	331	1,318	0	0	0	0	0	0	0
Department of Transportation	284,043	59,347	163,984	0	13,624	97	39,719	769	6,501	2
Federal Aviation Administration	123,414	13,656	109,758	0	0	0	0	0	0	0
Federal Highway Administration	111,710	34,588	45,526	0	928	97	26,331	769	3,471	0
Federal Railroad Administration	6,371	652	5,495	0	224	0	0	0	0	0
Federal Transit Administration	13,016	854	1,446	0	7,290	0	1,980	0	1,446	0
Office of the Secretary	14,842	6,722	0	0	5,142	0	1,394	0	1,584	0
Pipeline and Hazardous Materials Safety Administration	12,953	1,428	1,759	0	0	0	9,764	0	0	2
Research and Innovative Technology Administration	1,737	1,447	0	0	40	0	250	0	0	0
Department of the Treasury	4,374	2,074	2,300	0	0	0	0	0	0	0
Bureau of Engraving and Printing	674	674	0	0	0	0	0	0	0	0
U.S. Mint	3,700	1,400	2,300	0	0	0	0	0	0	0
Department of Veterans Affairs	19,744	19,744	0	0	0	0	0	0	0	0



TABLE 49. Federal obligations for development, by agency and performer: FY 2006  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Other agencies										
Agency for International Development	40,000	4,020	402	0	5,025	0	30,553	0	0	0
Environmental Protection Agency	116,741	93,083	4,174	0	12,135	0	5,605	0	1,320	424
Federal Communications Commission	447	447	0	0	0	0	0	0	0	0
Library of Congress	3,965	3,965	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	3,939,238	494,197	1,980,088	18	490,168	784,025	87,626	1,880	97,443	3,793

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>c</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	59,426,916	13,207,264	37,322,630	3,759,351	1,711,067	1,603,465	556,782	858,005	157,377	250,975
Departments										
Department of Agriculture	179,148	166,526	0	0	11,695	0	672	0	19	236
Agricultural Research Service	106,979	95,971	0	0	10,081	0	672	0	19	236
Animal and Plant Health Inspection Service	26,109	24,495	0	0	1,614	0	0	0	0	0
Forest Service	46,060	46,060	0	0	0	0	0	0	0	0
Department of Commerce	118,199	76,728	29,961	0	8,794	1,620	669	0	240	187
National Institute of Standards and Technology	43,526	14,043	28,763	0	320	0	400	0	0	0
National Oceanic and Atmospheric Administration	58,683	46,695	1,198	0	8,474	1,620	269	0	240	187
U.S. Census Bureau	15,990	15,990	0	0	0	0	0	0	0	0
Department of Defense	51,588,776	11,746,058	33,988,776	3,461,997	873,960	365,774	255,626	624,081	24,765	247,739
Defense agencies and activities	14,940,241	3,056,775	10,891,598	93,495	331,950	200,702	29,136	133,599	87	202,899
Chemical and Biological Defense	441,133	266,697	156,488	3,293	2,756	2,300	1,728	1,738	0	6,133
Defense Advanced Research Projects Agency	1,773,926	183,226	1,310,936	24,983	131,883	90,579	12,865	14,071	0	5,383
Defense Business Transformation Agency	129,933	66,221	63,712	0	0	0	0	0	0	0
Defense Contract Management Agency	10,438	522	9,916	0	0	0	0	0	0	0
Defense Information Systems Agency	348,992	95,126	232,890	4,411	408	0	0	16,157	0	0
Defense Logistics Agency	227,164	103,312	94,120	0	26,967	0	1,226	1,539	0	0
Defense Security Service	35,305	2	35,303	0	0	0	0	0	0	0
Defense Technical Information Center	48,937	42,120	6,817	0	0	0	0	0	0	0
Defense Threat Reduction Agency	122,016	38,613	80,676	707	1,101	656	263	0	0	0
Joint Staff	68,089	68,089	0	0	0	0	0	0	0	0
Missile Defense Agency	9,381,259	1,385,652	7,636,251	39,411	52,014	48,378	5,830	49,662	0	164,061
Office of the Secretary of Defense <sup>c</sup>	1,715,415	724,067	735,811	20,690	114,063	35,719	7,224	50,432	87	27,322
Special Operations Command	637,634	83,128	528,678	0	2,758	23,070	0	0	0	0
Department of the Air Force	9,137,586	1,010,289	7,571,940	72,271	45,311	101,943	15,887	312,024	4,121	3,800
Materiel Command	5,797,852	803,992	4,826,244	1,143	44,189	6,230	13,560	98,694	0	3,800
Space Command	3,339,734	206,297	2,745,696	71,128	1,122	95,713	2,327	213,330	4,121	0
Department of the Army	9,286,686	2,266,625	3,400,256	3,273,996	154,696	24,129	120,994	23,689	400	21,901
Department of the Navy	18,043,676	5,355,647	12,044,099	22,235	330,078	39,000	89,609	123,712	20,157	19,139
Operational Test and Evaluation, Director	180,587	56,722	80,883	0	11,925	0	0	31,057	0	0
Department of Defense advanced technology	6,406,198	1,648,139	3,822,499	48,773	508,134	142,643	164,585	41,564	87	29,774
Defense agencies and activities	3,438,358	855,665	2,062,946	45,962	266,942	132,211	19,382	31,107	87	24,056
Chemical and Biological Defense	126,064	118,247	3,322	2,475	884	0	0	75	0	1,061
Defense Advanced Research Projects Agency	1,699,069	155,485	1,263,820	24,983	131,883	90,579	12,865	14,071	0	5,383
Defense Logistics Agency	180,645	74,255	78,197	0	26,967	0	1,226	0	0	0
Defense Threat Reduction Agency	117,778	38,612	76,439	707	1,101	656	263	0	0	0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural <sup>a</sup>	Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Missile Defense Agency	171,651	33,678	116,250	1,339	11,471	5,567	40	3,001	0	305
Office of the Secretary of Defense <sup>b</sup>	993,584	415,294	395,445	16,458	94,636	35,409	4,988	13,960	87	17,307
Special Operations Command	149,567	20,094	129,473	0	0	0	0	0	0	0
Department of the Air Force	704,928	192,930	482,275	1,143	23,243	1,655	235	3,447	0	0
Materiel Command	704,928	192,930	482,275	1,143	23,243	1,655	235	3,447	0	0
Department of the Army	1,324,093	374,217	719,450	1,403	115,960	7,413	97,726	2,796	0	5,128
Department of the Navy	938,819	225,327	557,828	265	101,989	1,364	47,242	4,214	0	590
Department of Defense major systems	45,182,578	10,097,919	30,166,277	3,413,224	365,826	223,131	91,041	582,517	24,678	217,965
Defense agencies and activities	11,501,883	2,201,110	8,828,652	47,533	65,008	68,491	9,754	102,492	0	178,843
Chemical and Biological Defense	315,069	148,450	153,166	818	1,872	2,300	1,728	1,663	0	5,072
Defense Advanced Research Projects Agency	74,857	27,741	47,116	0	0	0	0	0	0	0
Defense Business Transformation Agency	129,933	66,221	63,712	0	0	0	0	0	0	0
Defense Contract Management Agency	10,438	522	9,916	0	0	0	0	0	0	0
Defense Information Systems Agency	348,992	95,126	232,890	4,411	408	0	0	16,157	0	0
Defense Logistics Agency	46,519	29,057	15,923	0	0	0	0	1,539	0	0
Defense Security Service	35,305	2	35,303	0	0	0	0	0	0	0
Defense Technical Information Center	48,937	42,120	6,817	0	0	0	0	0	0	0
Defense Threat Reduction Agency	4,238	1	4,237	0	0	0	0	0	0	0
Joint Staff	68,089	68,089	0	0	0	0	0	0	0	0
Missile Defense Agency	9,209,608	1,351,974	7,520,001	38,072	40,543	42,811	5,790	46,661	0	163,756
Office of the Secretary of Defense <sup>b</sup>	721,831	308,773	340,366	4,232	19,427	310	2,236	36,472	0	10,015
Special Operations Command	488,067	63,034	399,205	0	2,758	23,070	0	0	0	0
Department of the Air Force	8,432,658	817,359	7,089,665	71,128	22,068	100,288	15,652	308,577	4,121	3,800
Materiel Command	5,092,924	611,062	4,343,969	0	20,946	4,575	13,325	95,247	0	3,800
Space Command	3,339,734	206,297	2,745,696	71,128	1,122	95,713	2,327	213,330	4,121	0
Department of the Army	7,962,593	1,892,408	2,680,806	3,272,593	38,736	16,716	23,268	20,893	400	16,773
Department of the Navy	17,104,857	5,130,320	11,486,271	21,970	228,089	37,636	42,367	119,498	20,157	18,549
Operational Test and Evaluation, Director	180,587	56,722	80,883	0	11,925	0	0	31,057	0	0
Department of Education	126,328	5,693	11,568	0	76,685	0	32,228	0	154	0
Department of Energy	1,954,744	234,922	833,074	270,711	47,421	360,966	37,191	167,309	2,350	800
Bonneville Power Administration	2,484	2,484	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	28,256	1	0	0	0	0	0	28,255	0	0
Energy Efficiency and Renewable Energy	318,717	124,534	0	11,967	32,750	29,449	9,056	110,961	0	0
Environmental Management	14,972	1	0	149	14,671	61	0	90	0	0
Fossil Energy	220,850	89,976	70,096	0	0	15,725	26,468	15,435	2,350	800
National Nuclear Security Administration	1,359,900	17,925	759,413	258,595	0	315,731	1,667	6,569	0	0
Defense Programs	555,637	17,424	96,413	170,817	0	270,983	0	0	0	0
Naval Reactors	727,611	1	661,000	64,402	0	455	1,667	86	0	0

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2007  
(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural <sup>a</sup>	Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Nonproliferation and Verification	76,652	500	2,000	23,376	0	44,293	0	6,483	0	0
Nuclear Energy	9,565	1	3,565	0	0	0	0	5,999	0	0
Department of Health and Human Services	31,928	25,497	0	0	249	0	5,241	0	941	0
Agency for Healthcare Research and Quality	25,496	25,496	0	0	0	0	0	0	0	0
Health Resources and Services Administration	6,432	1	0	0	249	0	5,241	0	941	0
Department of Homeland Security	567,362	111,750	195,191	26,423	46,645	88,071	35,684	62,616	947	35
Science and Technology Directorate	550,533	103,074	188,468	26,423	46,395	88,071	34,504	62,616	947	35
Transportation Security Administration	2,646	1	2,645	0	0	0	0	0	0	0
U.S. Coast Guard	14,183	8,675	4,078	0	250	0	1,180	0	0	0
Department of Housing and Urban Development	24,635	14,733	8,247	0	0	0	1,655	0	0	0
Department of the Interior	63,883	50,931	3,610	0	2,966	0	1,881	0	4,495	0
Bureau of Reclamation	5,534	1,771	1,384	0	443	0	1,881	0	55	0
Geological Survey	58,349	49,160	2,226	0	2,523	0	0	0	4,440	0
Department of Justice	107,750	80,475	1,825	0	2,200	0	6,000	2,000	15,250	0
Bureau of Prisons	8,578	1,128	0	0	0	0	0	0	7,450	0
Federal Bureau of Investigation	70,847	70,847	0	0	0	0	0	0	0	0
Office of Justice Programs	28,325	8,500	1,825	0	2,200	0	6,000	2,000	7,800	0
Department of Labor	184,150	9,091	11,290	0	133,154	0	24,265	0	6,350	0
Employment and Training Administration	182,559	8,750	10,040	0	133,154	0	24,265	0	6,350	0
Pension Benefit Guaranty Corporation	1,591	341	1,250	0	0	0	0	0	0	0
Department of Transportation	271,246	56,907	176,368	200	4,958	82	30,734	106	1,791	100
Federal Aviation Administration	101,359	8,478	92,881	0	0	0	0	0	0	0
Federal Highway Administration	139,887	38,229	78,964	0	858	82	20,383	106	1,265	0
Federal Railroad Administration	2,836	413	2,423	0	0	0	0	0	0	0
Federal Transit Administration	6,360	434	100	0	4,100	0	1,200	0	526	0
Office of the Secretary	4,910	4,910	0	0	0	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	12,124	1,323	1,800	0	0	0	8,901	0	0	100
Research and Innovative Technology Administration	3,770	3,120	200	200	0	0	250	0	0	0
Department of the Treasury	4,455	1,955	2,500	0	0	0	0	0	0	0
Bureau of Engraving and Printing	955	955	0	0	0	0	0	0	0	0
U.S. Mint	3,500	1,000	2,500	0	0	0	0	0	0	0
Department of Veterans Affairs	19,839	19,839	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	40,000	4,020	402	0	5,025	0	30,553	0	0	0
Environmental Protection Agency	104,096	82,996	3,723	0	10,823	0	4,999	0	1,177	378

TABLE 50. Preliminary federal obligations for development, by agency and performer: FY 2007

(Dollars in thousands)

Agency	Extramural									
	United States and U.S. territories									
	Total	Intramural <sup>a</sup>	Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Communications Commission	2,170	2,170	0	0	0	0	0	0	0	0
Library of Congress	6,733	6,733	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	4,031,474	510,240	2,056,095	20	486,492	786,952	89,384	1,893	98,898	1,500

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.<sup>b</sup> In FY 2007 Department of the Army misreported approximately \$3.2 billion of major systems development obligations to industry FFRDCs; these obligations should have been reported to industry. Reporting of actual FY 2007 data in the forthcoming Volume 57 (FY 2007–09) of the Federal Funds series of detailed statistical tables will correct this error.<sup>c</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2008  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry	Universities	University	Other	Nonprofit	State, local	Foreign
				FFRDC	and colleges	FFRDC	nonprofits	FFRDC	governments	
All agencies	56,637,336	12,503,497	38,659,178	709,740	1,419,102	1,589,387	444,156	908,694	136,017	267,565
Departments										
Department of Agriculture	173,401	166,643	0	0	5,831	0	672	0	19	236
Agricultural Research Service	102,152	97,898	0	0	3,327	0	672	0	19	236
Animal and Plant Health Inspection Service	31,349	28,845	0	0	2,504	0	0	0	0	0
Forest Service	39,900	39,900	0	0	0	0	0	0	0	0
Department of Commerce	91,367	80,896	2,294	0	5,538	1,620	498	0	334	187
National Institute of Standards and Technology	9,272	7,749	865	0	523	0	135	0	0	0
National Oceanic and Atmospheric Administration	60,819	51,871	1,429	0	5,015	1,620	363	0	334	187
U.S. Census Bureau	21,276	21,276	0	0	0	0	0	0	0	0
Department of Defense	48,849,050	11,123,211	35,266,099	412,961	622,759	314,892	159,938	680,481	4,392	264,317
Defense agencies and activities	14,180,775	2,980,353	10,262,880	91,520	277,704	189,428	29,074	143,435	139	206,242
Chemical and Biological Defense	574,254	356,239	162,703	6,710	28,647	60	8,492	500	0	10,903
Defense Advanced Research Projects Agency	1,684,854	186,101	1,230,851	23,924	126,291	86,738	12,320	13,474	0	5,155
Defense Business Transformation Agency	185,507	79,407	106,100	0	0	0	0	0	0	0
Defense Contract Management Agency	11,264	564	10,700	0	0	0	0	0	0	0
Defense Information Systems Agency	341,707	93,888	224,533	6,215	0	0	0	17,071	0	0
Defense Logistics Agency	73,921	53,522	18,435	0	1,314	0	650	0	0	0
Defense Security Service	34,417	2	34,415	0	0	0	0	0	0	0
Defense Technical Information Center	51,793	46,988	4,805	0	0	0	0	0	0	0
Defense Threat Reduction Agency	217,434	66,742	145,979	1,222	1,903	1,135	453	0	0	0
Joint Staff	69,925	69,925	0	0	0	0	0	0	0	0
Missile Defense Agency	8,795,834	1,142,225	7,332,977	41,287	17,199	36,025	1,184	57,486	0	167,451
Office of the Secretary of Defense <sup>b</sup>	1,770,773	835,164	689,670	12,162	100,492	49,534	5,975	54,904	139	22,733
Special Operations Command	369,092	49,586	301,712	0	1,858	15,936	0	0	0	0
Department of the Air Force	9,307,706	977,651	7,824,005	37,641	22,819	71,892	29,700	339,745	4,253	0
Materiel Command	5,573,035	727,110	4,723,387	888	20,082	5,008	14,655	81,905	0	0
Space Command	3,734,671	250,541	3,100,618	36,753	2,737	66,884	15,045	257,840	4,253	0
Department of the Army	9,154,645	2,169,379	6,625,793	171,827	59,706	23,464	36,445	25,471	0	42,560
Department of the Navy	16,025,392	4,939,139	10,472,556	111,973	250,607	30,108	64,719	140,775	0	15,515
Operational Test and Evaluation, Director	180,532	56,689	80,865	0	11,923	0	0	31,055	0	0
Department of Defense advanced technology	4,834,164	1,499,190	2,727,567	45,677	310,523	147,387	45,372	37,935	139	20,374
Defense agencies and activities	3,376,453	1,044,699	1,827,890	44,325	249,923	140,237	18,129	31,679	139	19,432
Chemical and Biological Defense	271,494	234,254	2,063	6,290	26,824	0	0	0	0	2,063
Defense Advanced Research Projects Agency	1,627,027	148,892	1,210,233	23,924	126,291	86,738	12,320	13,474	0	5,155
Defense Logistics Agency	53,807	41,522	10,435	0	1,200	0	650	0	0	0
Defense Threat Reduction Agency	203,579	66,741	132,125	1,222	1,903	1,135	453	0	0	0

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2008  
(Dollars in thousands)

Agency	Total	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry	Industry	Universities	University	Other	Nonprofit	State, local	Foreign
				FFRDC	and colleges	FFRDC	nonprofits	FFRDC	governments	
Missile Defense Agency	141,147	37,865	86,684	897	8,632	3,930	0	2,849	0	290
Office of the Secretary of Defense <sup>b</sup>	1,039,076	510,009	351,443	11,992	85,073	48,434	4,706	15,356	139	11,924
Special Operations Command	40,323	5,416	34,907	0	0	0	0	0	0	0
Department of the Air Force	533,672	147,038	368,279	569	12,512	1,180	615	3,479	0	0
Materiel Command	533,672	147,038	368,279	569	12,512	1,180	615	3,479	0	0
Department of the Army	807,000	279,376	461,845	750	35,371	5,800	20,738	2,252	0	868
Department of the Navy	117,039	28,077	69,553	33	12,717	170	5,890	525	0	74
Department of Defense major systems	44,014,886	9,624,021	32,538,532	367,284	312,236	167,505	114,566	642,546	4,253	243,943
Defense agencies and activities	10,804,322	1,935,654	8,434,990	47,195	27,781	49,191	10,945	111,756	0	186,810
Chemical and Biological Defense	302,760	121,985	160,640	420	1,823	60	8,492	500	0	8,840
Defense Advanced Research Projects Agency	57,827	37,209	20,618	0	0	0	0	0	0	0
Defense Business Transformation Agency	185,507	79,407	106,100	0	0	0	0	0	0	0
Defense Contract Management Agency	11,264	564	10,700	0	0	0	0	0	0	0
Defense Information Systems Agency	341,707	93,888	224,533	6,215	0	0	0	17,071	0	0
Defense Logistics Agency	20,114	12,000	8,000	0	114	0	0	0	0	0
Defense Security Service	34,417	2	34,415	0	0	0	0	0	0	0
Defense Technical Information Center	51,793	46,988	4,805	0	0	0	0	0	0	0
Defense Threat Reduction Agency	13,855	1	13,854	0	0	0	0	0	0	0
Joint Staff	69,925	69,925	0	0	0	0	0	0	0	0
Missile Defense Agency	8,654,687	1,104,360	7,246,293	40,390	8,567	32,095	1,184	54,637	0	167,161
Office of the Secretary of Defense <sup>b</sup>	731,697	325,155	338,227	170	15,419	1,100	1,269	39,548	0	10,809
Special Operations Command	328,769	44,170	266,805	0	1,858	15,936	0	0	0	0
Department of the Air Force	8,774,034	830,613	7,455,726	37,072	10,307	70,712	29,085	336,266	4,253	0
Materiel Command	5,039,363	580,072	4,355,108	319	7,570	3,828	14,040	78,426	0	0
Space Command	3,734,671	250,541	3,100,618	36,753	2,737	66,884	15,045	257,840	4,253	0
Department of the Army	8,347,645	1,890,003	6,163,948	171,077	24,335	17,664	15,707	23,219	0	41,692
Department of the Navy	15,908,353	4,911,062	10,403,003	111,940	237,890	29,938	58,829	140,250	0	15,441
Operational Test and Evaluation, Director	180,532	56,689	80,865	0	11,923	0	0	31,055	0	0
Department of Education	127,835	6,603	11,285	0	77,712	0	32,235	0	0	0
Department of Energy	2,103,104	212,138	945,694	277,052	42,844	411,229	33,371	177,976	2,000	800
Bonneville Power Administration	2,176	2,176	0	0	0	0	0	0	0	0
Electricity Delivery and Energy Restoration	24,508	1	0	0	0	0	0	24,507	0	0
Energy Efficiency and Renewable Energy	274,177	107,129	0	10,295	28,173	25,334	7,791	95,455	0	0
Environmental Management	14,972	1	0	149	14,671	61	0	90	0	0
Fossil Energy	200,496	90,876	55,020	0	0	14,537	23,980	13,283	2,000	800
National Nuclear Security Administration	1,402,775	11,954	790,674	242,548	0	349,427	1,600	6,572	0	0
Defense Programs	588,575	11,453	114,101	158,405	0	304,616	0	0	0	0
Naval Reactors	737,548	1	674,573	60,767	0	518	1,600	89	0	0

TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2008  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Nonproliferation and Verification	76,652	500	2,000	23,376	0	44,293	0	6,483	0	0
Nuclear Energy	184,000	1	100,000	24,060	0	21,870	0	38,069	0	0
Department of Health and Human Services	32,530	26,367	0	0	249	0	5,052	0	862	0
Agency for Healthcare Research and Quality	26,366	26,366	0	0	0	0	0	0	0	0
Health Resources and Services Administration	6,164	1	0	0	249	0	5,052	0	862	0
Department of Homeland Security	418,523	84,929	141,096	19,496	34,433	64,984	26,659	46,202	698	26
Science and Technology Directorate	406,215	76,054	139,063	19,496	34,233	64,984	25,459	46,202	698	26
U.S. Coast Guard	12,308	8,875	2,033	0	200	0	1,200	0	0	0
Department of Housing and Urban Development	26,650	16,041	8,807	0	0	0	1,802	0	0	0
Department of the Interior	61,112	48,632	3,173	0	2,819	0	1,989	0	4,499	0
Bureau of Reclamation	5,852	1,873	1,463	0	468	0	1,989	0	59	0
Geological Survey	55,260	46,759	1,710	0	2,351	0	0	0	4,440	0
Department of Justice	58,273	32,573	1,825	0	2,500	0	5,125	2,000	14,250	0
Bureau of Prisons	8,612	1,162	0	0	0	0	0	0	7,450	0
Federal Bureau of Investigation	22,911	22,911	0	0	0	0	0	0	0	0
Office of Justice Programs	26,750	8,500	1,825	0	2,500	0	5,125	2,000	6,800	0
Department of Labor	158,998	7,913	8,782	0	115,509	0	20,805	0	5,989	0
Employment and Training Administration	157,547	7,562	7,682	0	115,509	0	20,805	0	5,989	0
Pension Benefit Guaranty Corporation	1,451	351	1,100	0	0	0	0	0	0	0
Department of Transportation	253,449	61,015	150,151	210	9,749	97	31,167	109	851	100
Federal Aviation Administration	98,374	10,171	88,203	0	0	0	0	0	0	0
Federal Highway Administration	125,716	37,100	57,153	0	3,499	97	26,907	109	851	0
Federal Railroad Administration	4,888	1,403	3,485	0	0	0	0	0	0	0
Federal Transit Administration	8,925	675	0	0	6,250	0	2,000	0	0	0
Office of the Secretary	9,115	9,115	0	0	0	0	0	0	0	0
Pipeline and Hazardous Materials Safety Administration	4,320	1,160	1,100	0	0	0	1,960	0	0	100
Research and Innovative Technology Administration	2,111	1,391	210	210	0	0	300	0	0	0
Department of the Treasury	4,050	2,050	2,000	0	0	0	0	0	0	0
Bureau of Engraving and Printing	1,050	1,050	0	0	0	0	0	0	0	0
U.S. Mint	3,000	1,000	2,000	0	0	0	0	0	0	0
Department of Veterans Affairs	19,696	19,696	0	0	0	0	0	0	0	0
Other agencies										
Agency for International Development	40,000	4,020	402	0	5,025	0	30,553	0	0	0
Environmental Protection Agency	101,836	81,194	3,642	0	10,588	0	4,890	0	1,152	370



TABLE 51. Preliminary federal obligations for development, by agency and performer: FY 2008

(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Communications Commission	465	465	0	0	0	0	0	0	0	0
Library of Congress	4,079	4,079	0	0	0	0	0	0	0	0
National Aeronautics and Space Administration	4,112,918	525,032	2,113,928	21	483,546	796,565	89,400	1,926	100,971	1,529

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 52. Federal funds for R&D plant, by agency: FY 2006–08  
(Dollars in thousands)

Agency	Obligations			Outlays		
	2006	Preliminary		2006	Preliminary	
		2007	2008		2007	2008
All agencies	2,124,782	2,198,244	1,866,611	2,041,043	2,114,488	1,878,666
Departments						
Department of Agriculture	172,592	161,100	20,500	184,531	172,820	155,700
Agricultural Research Service	159,083	140,000	0	171,031	151,720	135,200
Forest Service	13,509	21,100	20,500	13,500	21,100	20,500
Department of Commerce	74,553	106,187	132,379	45,981	44,231	51,539
National Institute of Standards and Technology	43,257	67,701	93,865	45,981	44,231	51,539
National Oceanic and Atmospheric Administration	31,296	38,486	38,514	0	0	0
Department of Defense	63,273	86,134	38,976	93,312	112,157	67,085
Defense agencies and activities	34,798	57,786	12,969	34,798	54,607	7,754
Chemical and Biological Defense	1,040	7,994	12,519	1,040	4,815	7,304
Missile Defense Agency	33,455	49,350	0	33,455	49,350	0
Office of the Secretary of Defense <sup>a</sup>	303	442	450	303	442	450
Department of the Air Force	11,302	13,653	10,589	38,707	41,347	41,676
Materiel Command	11,302	13,653	10,589	38,707	41,347	41,676
Department of the Navy	17,173	14,695	15,418	19,807	16,203	17,655
Department of Energy	778,153	888,914	834,953	780,267	908,372	835,539
Energy Efficiency and Renewable Energy	26,052	107,035	6,982	26,052	107,035	6,982
Fossil Energy	19,367	11,577	653	20,545	12,097	778
National Nuclear Security Administration	304,620	218,284	136,213	310,498	237,220	136,674
Defense Programs	271,589	196,799	96,813	271,589	196,799	96,813
Naval Reactors	33,031	21,485	39,400	38,909	40,421	39,861
Nuclear Energy	0	0	30,000	0	0	30,000
Office of Science	428,114	552,018	661,105	423,172	552,020	661,105
Department of Health and Human Services	360,886	275,006	146,721	358,792	273,964	146,313
Centers for Disease Control and Prevention	143,915	68,700	0	143,915	68,700	0
Food and Drug Administration	3,856	2,265	2,265	1,762	1,223	1,857
Health Resources and Services Administration	560	608	616	560	608	616
National Institutes of Health	212,555	203,433	143,840	212,555	203,433	143,840
Department of Homeland Security	131,767	109,880	81,338	121,241	114,404	84,191
Science and Technology Directorate	131,438	108,880	80,338	120,912	113,404	83,191
U.S. Coast Guard	329	1,000	1,000	329	1,000	1,000
Department of the Interior	5,482	4,590	6,440	5,307	4,855	6,733
Bureau of Reclamation	2,242	2,025	4,375	2,242	2,025	4,375
Minerals Management Service	3,240	2,565	2,065	3,065	2,830	2,358
Department of Transportation	18,718	19,279	19,081	18,066	18,529	14,772
Federal Aviation Administration	16,929	17,398	17,200	17,000	17,000	13,000
Federal Railroad Administration	1,789	1,881	1,881	1,066	1,529	1,772
Department of the Treasury	3,700	3,500	3,000	0	0	0
U.S. Mint	3,700	3,500	3,000	0	0	0
Department of Veterans Affairs	376	377	375	376	377	375

TABLE 52. Federal funds for R&D plant, by agency: FY 2006–08  
(Dollars in thousands)

Agency	Obligations			Outlays		
	2006	Preliminary		2006	Preliminary	
		2007	2008		2007	2008
Other agencies						
National Aeronautics and Space Administration	38,966	39,183	39,683	12,170	12,779	13,419
National Science Foundation	448,916	471,494	497,865	395,000	421,000	460,000
Smithsonian Institution	27,400	32,600	45,300	26,000	31,000	43,000

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations or outlays in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 53. Federal obligations for R&D plant, by agency and R&D performer: FY 2006  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	2,124,782	662,758	265,751	82,697	262,466	519,296	127,327	201,638	2,598	251
Departments										
Department of Agriculture	172,592	172,592	0	0	0	0	0	0	0	0
Agricultural Research Service	159,083	159,083	0	0	0	0	0	0	0	0
Forest Service	13,509	13,509	0	0	0	0	0	0	0	0
Department of Commerce	74,553	52,791	0	0	21,762	0	0	0	0	0
National Institute of Standards and Technology	43,257	43,257	0	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	31,296	9,534	0	0	21,762	0	0	0	0	0
Department of Defense	63,273	18,034	43,706	0	0	120	0	1,413	0	0
Defense agencies and activities	34,798	1,040	33,758	0	0	0	0	0	0	0
Chemical and Biological Defense	1,040	1,040	0	0	0	0	0	0	0	0
Missile Defense Agency	33,455	0	33,455	0	0	0	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	303	0	303	0	0	0	0	0	0	0
Department of the Air Force	11,302	2,871	8,281	0	0	120	0	30	0	0
Materiel Command	11,302	2,871	8,281	0	0	120	0	30	0	0
Department of the Navy	17,173	14,123	1,667	0	0	0	0	1,383	0	0
Department of Energy	778,153	2,578	91,975	78,750	1,342	413,478	1,149	188,881	0	0
Energy Efficiency and Renewable Energy	26,052	0	0	760	0	1,946	0	23,346	0	0
Fossil Energy	19,367	0	19,367	0	0	0	0	0	0	0
National Nuclear Security Administration	304,620	0	70,598	72,451	0	161,571	0	0	0	0
Defense Programs	271,589	0	38,567	71,451	0	161,571	0	0	0	0
Naval Reactors	33,031	0	32,031	1,000	0	0	0	0	0	0
Office of Science	428,114	2,578	2,010	5,539	1,342	249,961	1,149	165,535	0	0
Department of Health and Human Services	360,886	318,498	0	0	39,092	0	3,296	0	0	0
Centers for Disease Control and Prevention	143,915	143,915	0	0	0	0	0	0	0	0
Food and Drug Administration	3,856	3,856	0	0	0	0	0	0	0	0
Health Resources and Services Administration	560	560	0	0	0	0	0	0	0	0
National Institutes of Health	212,555	170,167	0	0	39,092	0	3,296	0	0	0
Department of Homeland Security	131,767	45,195	41,663	3,947	2,187	21,238	3,817	11,342	2,378	0
Science and Technology Directorate	131,438	45,195	41,663	3,947	1,858	21,238	3,817	11,342	2,378	0
U.S. Coast Guard	329	0	0	0	329	0	0	0	0	0
Department of the Interior	5,482	0	5,482	0	0	0	0	0	0	0
Bureau of Reclamation	2,242	0	2,242	0	0	0	0	0	0	0
Minerals Management Service	3,240	0	3,240	0	0	0	0	0	0	0
Department of Transportation	18,718	0	18,718	0	0	0	0	0	0	0
Federal Aviation Administration	16,929	0	16,929	0	0	0	0	0	0	0

TABLE 53. Federal obligations for R&D plant, by agency and R&D performer: FY 2006  
(Dollars in thousands)

Agency	Total		Extramural							
			United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Railroad Administration	1,789	0	1,789	0	0	0	0	0	0	0
Department of the Treasury	3,700	1,400	2,300	0	0	0	0	0	0	0
U.S. Mint	3,700	1,400	2,300	0	0	0	0	0	0	0
Department of Veterans Affairs	376	376	0	0	0	0	0	0	0	0
Other agencies										
National Aeronautics and Space Administration	38,966	160	11,764	0	0	27,042	0	0	0	0
National Science Foundation	448,916	23,734	50,143	0	198,083	57,418	119,065	2	220	251
Smithsonian Institution	27,400	27,400	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2007  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
All agencies	2,198,244	600,527	241,530	22,932	318,142	572,127	135,031	307,267	417	271
Departments										
Department of Agriculture	161,100	161,100	0	0	0	0	0	0	0	0
Agricultural Research Service	140,000	140,000	0	0	0	0	0	0	0	0
Forest Service	21,100	21,100	0	0	0	0	0	0	0	0
Department of Commerce	106,187	78,080	0	0	28,107	0	0	0	0	0
National Institute of Standards and Technology	67,701	67,701	0	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	38,486	10,379	0	0	28,107	0	0	0	0	0
Department of Defense	86,134	21,676	64,458	0	0	0	0	0	0	0
Defense agencies and activities	57,786	930	56,856	0	0	0	0	0	0	0
Chemical and Biological Defense	7,994	930	7,064	0	0	0	0	0	0	0
Missile Defense Agency	49,350	0	49,350	0	0	0	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	442	0	442	0	0	0	0	0	0	0
Department of the Air Force	13,653	6,075	7,578	0	0	0	0	0	0	0
Materiel Command	13,653	6,075	7,578	0	0	0	0	0	0	0
Department of the Navy	14,695	14,671	24	0	0	0	0	0	0	0
Department of Energy	888,914	25,762	48,803	17,706	7,358	494,404	0	294,881	0	0
Energy Efficiency and Renewable Energy	107,035	0	0	1,167	0	2,990	0	102,878	0	0
Fossil Energy	11,577	0	11,577	0	0	0	0	0	0	0
National Nuclear Security Administration	218,284	25,762	35,404	9,984	0	147,134	0	0	0	0
Defense Programs	196,799	25,762	13,919	9,984	0	147,134	0	0	0	0
Naval Reactors	21,485	0	21,485	0	0	0	0	0	0	0
Office of Science	552,018	0	1,822	6,555	7,358	344,280	0	192,003	0	0
Department of Health and Human Services	275,006	234,437	0	0	37,414	0	3,155	0	0	0
Centers for Disease Control and Prevention	68,700	68,700	0	0	0	0	0	0	0	0
Food and Drug Administration	2,265	2,265	0	0	0	0	0	0	0	0
Health Resources and Services Administration	608	608	0	0	0	0	0	0	0	0
National Institutes of Health	203,433	162,864	0	0	37,414	0	3,155	0	0	0
Department of Homeland Security	109,880	20,385	37,274	5,226	10,176	17,418	6,824	12,384	186	7
Science and Technology Directorate	108,880	20,385	37,274	5,226	9,176	17,418	6,824	12,384	186	7
U.S. Coast Guard	1,000	0	0	0	1,000	0	0	0	0	0
Department of the Interior	4,590	0	4,590	0	0	0	0	0	0	0
Bureau of Reclamation	2,025	0	2,025	0	0	0	0	0	0	0
Minerals Management Service	2,565	0	2,565	0	0	0	0	0	0	0
Department of Transportation	19,279	0	19,279	0	0	0	0	0	0	0
Federal Aviation Administration	17,398	0	17,398	0	0	0	0	0	0	0

TABLE 54. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2007  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
Federal Railroad Administration	1,881	0	1,881	0	0	0	0	0	0	0
Department of the Treasury	3,500	1,000	2,500	0	0	0	0	0	0	0
U.S. Mint	3,500	1,000	2,500	0	0	0	0	0	0	0
Department of Veterans Affairs	377	377	0	0	0	0	0	0	0	0
Other agencies										
National Aeronautics and Space Administration	39,183	182	11,958	0	27,043	0	0	0	0	0
National Science Foundation	471,494	24,928	52,668	0	208,044	60,305	125,052	2	231	264
Smithsonian Institution	32,600	32,600	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 55. Preliminary federal obligations for R&D plant, by agency and R&D performer: FY 2008  
(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
All agencies	1,866,611	348,651	220,780	59,678	320,405	413,993	139,310	363,128	383	283
Departments										
Department of Agriculture	20,500	20,500	0	0	0	0	0	0	0	0
Forest Service	20,500	20,500	0	0	0	0	0	0	0	0
Department of Commerce	132,379	104,244	0	0	28,135	0	0	0	0	0
National Institute of Standards and Technology	93,865	93,865	0	0	0	0	0	0	0	0
National Oceanic and Atmospheric Administration	38,514	10,379	0	0	28,135	0	0	0	0	0
Department of Defense	38,976	17,608	21,368	0	0	0	0	0	0	0
Defense agencies and activities	12,969	930	12,039	0	0	0	0	0	0	0
Chemical and Biological Defense	12,519	930	11,589	0	0	0	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	450	0	450	0	0	0	0	0	0	0
Department of the Air Force	10,589	1,700	8,889	0	0	0	0	0	0	0
Materiel Command	10,589	1,700	8,889	0	0	0	0	0	0	0
Department of the Navy	15,418	14,978	440	0	0	0	0	0	0	0
Department of Energy	834,953	0	76,591	55,822	11,087	337,462	0	353,991	0	0
Energy Efficiency and Renewable Energy	6,982	0	0	339	0	869	0	5,774	0	0
Fossil Energy	653	0	653	0	0	0	0	0	0	0
National Nuclear Security Administration	136,213	0	75,574	18,828	0	41,811	0	0	0	0
Defense Programs	96,813	0	36,174	18,828	0	41,811	0	0	0	0
Naval Reactors	39,400	0	39,400	0	0	0	0	0	0	0
Nuclear Energy	30,000	0	0	30,000	0	0	0	0	0	0
Office of Science	661,105	0	364	6,655	11,087	294,782	0	348,217	0	0
Department of Health and Human Services	146,721	118,076	0	0	26,418	0	2,227	0	0	0
Food and Drug Administration	2,265	2,265	0	0	0	0	0	0	0	0
Health Resources and Services Administration	616	616	0	0	0	0	0	0	0	0
National Institutes of Health	143,840	115,195	0	0	26,418	0	2,227	0	0	0
Department of Homeland Security	81,338	15,041	27,503	3,856	7,770	12,852	5,035	9,137	139	5
Science and Technology Directorate	80,338	15,041	27,503	3,856	6,770	12,852	5,035	9,137	139	5
U.S. Coast Guard	1,000	0	0	0	1,000	0	0	0	0	0
Department of the Interior	6,440	0	6,440	0	0	0	0	0	0	0
Bureau of Reclamation	4,375	0	4,375	0	0	0	0	0	0	0
Minerals Management Service	2,065	0	2,065	0	0	0	0	0	0	0
Department of Transportation	19,081	0	19,081	0	0	0	0	0	0	0
Federal Aviation Administration	17,200	0	17,200	0	0	0	0	0	0	0
Federal Railroad Administration	1,881	0	1,881	0	0	0	0	0	0	0
Department of the Treasury	3,000	1,000	2,000	0	0	0	0	0	0	0



TABLE 55. Preliminary federal obligations for R&amp;D plant, by agency and R&amp;D performer: FY 2008

(Dollars in thousands)

Agency			Extramural							
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
U.S. Mint	3,000	1,000	2,000	0	0	0	0	0	0	0
Department of Veterans Affairs	375	375	0	0	0	0	0	0	0	0
Other agencies										
National Aeronautics and Space Administration	39,683	185	12,185	0	27,313	0	0	0	0	0
National Science Foundation	497,865	26,322	55,612	0	219,682	63,679	132,048	0	244	278
Smithsonian Institution	45,300	45,300	0	0	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2006, National Aeronautics and Space Administration reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2006–08  
(Dollars in thousands)

Field	2006	Preliminary	
		2007	2008
All fields	22,231,516	22,822,430	22,668,046
Environmental sciences	986,071	1,005,750	1,028,245
Atmospheric sciences	233,435	NA	NA
Geological sciences	196,418	NA	NA
Oceanography	281,822	NA	NA
Environmental sciences, nec	274,396	NA	NA
Life sciences	14,660,521	14,828,567	14,594,970
Agricultural sciences	328,377	NA	NA
Biological sciences (excluding environmental biology)	7,818,507	NA	NA
Environmental biology	227,762	NA	NA
Medical sciences	5,435,193	NA	NA
Life sciences, nec	850,682	NA	NA
Mathematics and computer sciences	1,040,882	1,129,591	1,172,757
Computer sciences	675,731	NA	NA
Mathematics	350,635	NA	NA
Mathematics and computer sciences, nec	14,516	NA	NA
Physical sciences	1,583,800	1,661,384	1,738,915
Astronomy	167,209	NA	NA
Chemistry	586,723	NA	NA
Physics	638,752	NA	NA
Physical sciences, nec	191,116	NA	NA
Psychology	965,518	971,098	973,108
Biological aspects	1,201	NA	NA
Social aspects	6,421	NA	NA
Psychological sciences, nec	957,896	NA	NA
Social sciences	397,254	422,018	415,408
Anthropology	10,400	NA	NA
Economics	62,216	NA	NA
Political science	9,249	NA	NA
Sociology	21,988	NA	NA
Social sciences, nec	293,401	NA	NA
Other sciences, nec	697,491	724,385	742,197
Engineering	1,899,979	2,079,637	2,002,446
Aeronautical engineering	130,048	NA	NA
Astronautical engineering	45,200	NA	NA
Chemical engineering	96,484	NA	NA
Civil engineering	66,056	NA	NA
Electrical engineering	241,441	NA	NA
Mechanical engineering	61,340	NA	NA
Metallurgy and materials engineering	297,139	NA	NA
Engineering, nec	962,271	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented approximately 98% of total federal research obligations to universities and colleges in FY 2006, 2007, and 2008. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	22,231,516	986,071	14,660,521	1,040,882	1,583,800	965,518	397,254	697,491	1,899,979
Departments									
Department of Agriculture	708,328	12,824	596,686	635	22,694	0	59,065	0	16,424
Agricultural Marketing Service	173	0	173	0	0	0	0	0	0
Agricultural Research Service	99,698	439	91,592	130	6,640	0	0	0	897
Cooperative State Research, Education, and Extension Service	579,350	9,943	488,734	0	15,928	0	50,217	0	14,528
Economic Research Service	4,865	0	0	0	0	0	4,865	0	0
Foreign Agricultural Service	345	0	345	0	0	0	0	0	0
Forest Service	23,087	2,442	15,842	265	126	0	3,413	0	999
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Rural Business-Cooperative Service	570	0	0	0	0	0	570	0	0
Department of Defense	1,329,660	114,405	180,539	204,957	180,155	9,295	219	68,360	571,730
Defense agencies and activities	409,800	4,249	103,452	102,019	65,371	1,991	0	581	132,137
Chemical and Biological Defense	19,000	0	6,906	0	12,094	0	0	0	0
Defense Advanced Research Projects Agency	316,810	2,389	73,060	90,240	43,355	0	0	0	107,766
Defense Threat Reduction Agency	7,398	0	700	660	4,272	0	0	581	1,185
Office of the Secretary of Defense <sup>a</sup>	66,592	1,860	22,786	11,119	5,650	1,991	0	0	23,186
Department of the Air Force	243,736	4,068	12,343	25,825	30,830	3,542	0	67,779	99,349
Materiel Command	243,736	4,068	12,343	25,825	30,830	3,542	0	67,779	99,349
Department of the Army	273,208	9,054	27,570	55,169	48,617	3,762	219	0	128,817
Department of the Navy	402,916	97,034	37,174	21,944	35,337	0	0	0	211,427
Department of Energy	806,069	88,111	143,684	33,844	386,037	0	0	1,714	152,679
Electricity Delivery and Energy Restoration	10,608	0	0	0	0	0	0	0	10,608
Energy Efficiency and Renewable Energy	21,714	0	28	0	91	0	0	0	21,595
Environmental Management	10,011	10,011	0	0	0	0	0	0	0
Fossil Energy	59,386	14,842	0	0	19,630	0	0	0	24,914
National Nuclear Security Administration	73,106	1,933	0	109	0	0	0	1,714	69,350
Defense Programs	67,980	0	0	0	0	0	0	0	67,980
Nonproliferation and Verification	5,126	1,933	0	109	0	0	0	1,714	1,370
Nuclear Energy	6,931	0	0	0	0	0	0	0	6,931
Office of Science	624,313	61,325	143,656	33,735	366,316	0	0	0	19,281
Department of Health and Human Services	15,782,417	215,706	13,193,851	94,637	260,577	950,003	184,943	420,725	461,975
Administration for Children and Families	12,211	0	0	0	0	0	12,211	0	0
Agency for Healthcare Research and Quality	72,097	0	53,093	682	0	324	8,897	9,101	0
Agency for Toxic Substances and Disease Registry	2,122	2,122	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	173,597	0	173,597	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	3,393	0	3,393	0	0	0	0	0	0

TABLE 57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Food and Drug Administration	14,504	0	14,504	0	0	0	0	0	0
Health Resources and Services Administration	11,364	0	11,364	0	0	0	0	0	0
National Institutes of Health	15,489,276	213,584	12,937,900	93,955	260,577	949,679	159,982	411,624	461,975
Office of the Secretary	3,853	0	0	0	0	0	3,853	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,853	0	0	0	0	0	3,853	0	0
Department of Homeland Security	8,424	0	2,819	312	1,681	124	463	1,235	1,790
Science and Technology Directorate	8,424	0	2,819	312	1,681	124	463	1,235	1,790
Other agencies									
National Aeronautics and Space Administration	485,137	119,948	25,782	7,218	150,310	1,521	107	29,060	151,191
National Science Foundation	3,111,481	435,077	517,160	699,279	582,346	4,575	152,457	176,397	544,190

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented approximately 97% of total federal research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 58. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	22,822,430	1,005,750	14,828,567	1,129,591	1,661,384	971,098	422,018	724,385	2,079,637
Departments									
Department of Agriculture	797,415	8,846	660,537	623	29,546	0	72,166	0	25,697
Agricultural Marketing Service	173	0	173	0	0	0	0	0	0
Agricultural Research Service	90,724	399	83,348	118	6,042	0	0	0	817
Cooperative State Research, Education, and Extension Service	677,761	6,005	560,829	0	23,378	0	63,668	0	23,881
Economic Research Service	4,500	0	0	0	0	0	4,500	0	0
Foreign Agricultural Service	345	0	345	0	0	0	0	0	0
Forest Service	23,087	2,442	15,842	265	126	0	3,413	0	999
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Rural Business-Cooperative Service	585	0	0	0	0	0	585	0	0
Department of Defense	1,609,359	123,291	258,412	254,509	198,466	12,168	231	79,537	682,745
Defense agencies and activities	582,921	5,964	136,766	155,560	78,031	2,455	0	3,654	200,491
Chemical and Biological Defense	5,048	0	3,292	0	1,756	0	0	0	0
Defense Advanced Research Projects Agency	498,977	3,745	113,994	142,119	68,097	0	0	0	171,022
Defense Threat Reduction Agency	7,211	0	365	344	2,230	0	0	3,654	618
Office of the Secretary of Defense <sup>a</sup>	71,685	2,219	19,115	13,097	5,948	2,455	0	0	28,851
Department of the Air Force	256,105	3,735	11,017	20,340	31,118	3,964	0	75,383	110,548
Materiel Command	256,105	3,735	11,017	20,340	31,118	3,964	0	75,383	110,548
Department of the Army	317,889	6,722	68,488	53,280	49,123	5,749	231	500	133,796
Department of the Navy	452,444	106,870	42,141	25,329	40,194	0	0	0	237,910
Department of Energy	766,896	79,910	104,436	20,629	408,264	0	0	0	153,657
Electricity Delivery and Energy Restoration	5,344	0	0	0	0	0	0	0	5,344
Energy Efficiency and Renewable Energy	35,233	0	13	0	44	0	0	0	35,176
Environmental Management	6,288	6,288	0	0	0	0	0	0	0
Fossil Energy	48,867	14,556	0	0	19,488	0	0	0	14,823
National Nuclear Security Administration	44,150	0	0	0	0	0	0	0	44,150
Defense Programs	44,150	0	0	0	0	0	0	0	44,150
Nuclear Energy	5,860	0	0	0	0	0	0	0	5,860
Office of Science	621,154	59,066	104,423	20,629	388,732	0	0	0	48,304
Department of Health and Human Services	15,813,550	217,201	13,218,406	94,840	261,138	952,046	185,337	421,612	462,970
Administration for Children and Families	12,467	0	0	0	0	0	12,467	0	0
Agency for Healthcare Research and Quality	72,101	0	53,096	682	0	324	8,897	9,102	0
Agency for Toxic Substances and Disease Registry	3,158	3,158	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	170,270	0	170,270	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	3,472	0	3,472	0	0	0	0	0	0
Food and Drug Administration	14,452	0	14,452	0	0	0	0	0	0

TABLE 58. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Health Resources and Services Administration	11,364	0	11,364	0	0	0	0	0	0
National Institutes of Health	15,522,620	214,043	12,965,752	94,158	261,138	951,722	160,327	412,510	462,970
Office of the Secretary	3,646	0	0	0	0	0	3,646	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,646	0	0	0	0	0	3,646	0	0
Department of Homeland Security	35,697	0	18,346	2,633	1,686	335	0	6,730	5,967
Science and Technology Directorate	35,697	0	18,346	2,633	1,686	335	0	6,730	5,967
Other agencies									
National Aeronautics and Space Administration	485,545	119,979	25,821	7,234	150,274	1,525	107	29,044	151,561
National Science Foundation	3,313,968	456,523	542,609	749,123	612,010	5,024	164,177	187,462	597,040

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented approximately 98% of total federal research obligations to universities and colleges in FY 2007. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 59. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies	22,668,046	1,028,245	14,594,970	1,172,757	1,738,915	973,108	415,408	742,197	2,002,446
Departments									
Department of Agriculture	537,523	6,706	444,444	544	18,063	0	50,756	0	17,010
Agricultural Marketing Service	173	0	173	0	0	0	0	0	0
Agricultural Research Service	29,939	132	27,505	39	1,993	0	0	0	270
Cooperative State Research, Education, and Extension Service	477,239	4,132	400,579	0	15,944	0	40,843	0	15,741
Economic Research Service	6,500	0	0	0	0	0	6,500	0	0
Foreign Agricultural Service	345	0	345	0	0	0	0	0	0
Forest Service	23,087	2,442	15,842	265	126	0	3,413	0	999
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Department of Defense	1,424,606	113,072	202,290	234,555	199,571	11,087	2,020	82,765	579,246
Defense agencies and activities	581,792	5,758	133,249	150,601	93,018	2,835	1,800	2,241	192,290
Chemical and Biological Defense	41,635	0	20,211	0	21,424	0	0	0	0
Defense Advanced Research Projects Agency	469,143	3,481	108,594	133,607	63,582	0	0	0	159,879
Defense Threat Reduction Agency	4,443	0	226	213	1,380	0	0	2,241	383
Office of the Secretary of Defense <sup>a</sup>	66,571	2,277	4,218	16,781	6,632	2,835	1,800	0	32,028
Department of the Air Force	253,557	4,033	9,599	19,855	29,973	3,840	0	80,524	105,733
Materiel Command	253,557	4,033	9,599	19,855	29,973	3,840	0	80,524	105,733
Department of the Army	193,311	6,122	21,335	41,101	39,416	4,412	220	0	80,705
Department of the Navy	395,946	97,159	38,107	22,998	37,164	0	0	0	200,518
Department of Energy	766,779	77,819	64,381	28,258	444,853	0	0	0	151,468
Electricity Delivery and Energy Restoration	4,635	0	0	0	0	0	0	0	4,635
Energy Efficiency and Renewable Energy	37,769	0	20	0	67	0	0	0	37,682
Environmental Management	6,288	6,288	0	0	0	0	0	0	0
Fossil Energy	46,900	13,065	0	0	20,329	0	0	0	13,506
National Nuclear Security Administration	53,044	0	0	0	0	0	0	0	53,044
Defense Programs	53,044	0	0	0	0	0	0	0	53,044
Nuclear Energy	6,000	0	0	0	0	0	0	0	6,000
Office of Science	612,143	58,466	64,361	28,258	424,457	0	0	0	36,601
Department of Health and Human Services	15,859,305	216,206	13,257,206	95,145	261,922	954,918	186,385	423,161	464,362
Administration for Children and Families	12,729	0	0	0	0	0	12,729	0	0
Agency for Healthcare Research and Quality	74,561	0	54,908	705	0	335	9,201	9,412	0
Agency for Toxic Substances and Disease Registry	1,520	1,520	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	170,270	0	170,270	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	1,975	0	1,975	0	0	0	0	0	0
Food and Drug Administration	13,971	0	13,971	0	0	0	0	0	0
Health Resources and Services Administration	11,364	0	11,364	0	0	0	0	0	0

TABLE 59. Preliminary federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
National Institutes of Health	15,569,269	214,686	13,004,718	94,440	261,922	954,583	160,809	413,749	464,362
Office of the Secretary	3,646	0	0	0	0	0	3,646	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,646	0	0	0	0	0	3,646	0	0
Department of Homeland Security	26,339	0	13,537	1,943	1,244	247	0	4,965	4,403
Science and Technology Directorate	26,339	0	13,537	1,943	1,244	247	0	4,965	4,403
Other agencies									
National Aeronautics and Space Administration	484,406	120,188	25,643	7,151	151,040	1,503	108	29,256	149,517
National Science Foundation	3,569,088	494,254	587,469	805,161	662,222	5,353	176,139	202,050	636,440

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented approximately 98% of total federal research obligations to universities and colleges in FY 2008. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 60. Federal obligations for research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies	986,071	233,435	196,418	281,822	274,396	1,583,800	167,209	586,723	638,752	191,116
Departments										
Department of Agriculture	12,824	12,318	506	0	0	22,694	0	22,385	309	0
Agricultural Research Service	439	428	11	0	0	6,640	0	6,331	309	0
Cooperative State Research, Education, and Extension Service	9,943	9,943	0	0	0	15,928	0	15,928	0	0
Forest Service	2,442	1,947	495	0	0	126	0	126	0	0
Department of Defense	114,405	13,290	7,295	89,797	4,023	180,155	7	58,148	70,631	51,369
Defense agencies and activities	4,249	840	180	840	2,389	65,371	0	11,291	16,915	37,165
Chemical and Biological Defense	0	0	0	0	0	12,094	0	0	0	12,094
Defense Advanced Research Projects Agency	2,389	0	0	0	2,389	43,355	0	8,437	9,847	25,071
Defense Threat Reduction Agency	0	0	0	0	0	4,272	0	0	4,272	0
Office of the Secretary of Defense <sup>a</sup>	1,860	840	180	840	0	5,650	0	2,854	2,796	0
Department of the Air Force	4,068	1,675	2,393	0	0	30,830	7	5,120	24,818	885
Materiel Command	4,068	1,675	2,393	0	0	30,830	7	5,120	24,818	885
Department of the Army	9,054	4,332	4,722	0	0	48,617	0	25,027	17,209	6,381
Department of the Navy	97,034	6,443	0	88,957	1,634	35,337	0	16,710	11,689	6,938
Department of Energy	88,111	28,820	31,720	2,718	24,853	386,037	0	85,096	300,941	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	91	0	91	0	0
Environmental Management	10,011	0	0	0	10,011	0	0	0	0	0
Fossil Energy	14,842	0	0	0	14,842	19,630	0	19,630	0	0
National Nuclear Security Administration	1,933	821	1,112	0	0	0	0	0	0	0
Nonproliferation and Verification	1,933	821	1,112	0	0	0	0	0	0	0
Office of Science	61,325	27,999	30,608	2,718	0	366,316	0	65,375	300,941	0
Department of Health and Human Services	215,706	0	0	0	215,706	260,577	0	244,904	0	15,673
Agency for Toxic Substances and Disease Registry	2,122	0	0	0	2,122	0	0	0	0	0
National Institutes of Health	213,584	0	0	0	213,584	260,577	0	244,904	0	15,673
Department of Homeland Security	0	0	0	0	0	1,681	0	727	939	15
Science and Technology Directorate	0	0	0	0	0	1,681	0	727	939	15

TABLE 60. Federal obligations for research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
Other agencies										
National Aeronautics and Space Administration	119,948	75,117	25,996	9,748	9,087	150,310	94,001	6,617	42,917	6,775
National Science Foundation	435,077	103,890	130,901	179,559	20,727	582,346	73,201	168,846	223,015	117,284

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented approximately 97% of total federal research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 61. Federal obligations for research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies	14,660,521	328,377	7,818,507	227,762	5,435,193	850,682	965,518	1,201	6,421	957,896
Departments										
Department of Agriculture	596,686	327,252	140,577	118,682	10,175	0	0	0	0	0
Agricultural Marketing Service	173	173	0	0	0	0	0	0	0	0
Agricultural Research Service	91,592	71,155	6,381	12,431	1,625	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	488,734	255,541	125,425	99,218	8,550	0	0	0	0	0
Foreign Agricultural Service	345	345	0	0	0	0	0	0	0	0
Forest Service	15,842	38	8,771	7,033	0	0	0	0	0	0
Department of Defense	180,539	915	62,792	8,169	79,288	29,375	9,295	1,151	840	7,304
Defense agencies and activities	103,452	840	40,506	820	58,901	2,385	1,991	1,151	840	0
Chemical and Biological Defense	6,906	0	0	0	6,906	0	0	0	0	0
Defense Advanced Research Projects Agency	73,060	0	37,905	225	33,465	1,465	0	0	0	0
Defense Threat Reduction Agency	700	0	0	0	700	0	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	22,786	840	2,601	595	17,830	920	1,991	1,151	840	0
Department of the Air Force	12,343	0	4,111	2,214	0	6,018	3,542	0	0	3,542
Materiel Command	12,343	0	4,111	2,214	0	6,018	3,542	0	0	3,542
Department of the Army	27,570	75	12,573	218	14,323	381	3,762	0	0	3,762
Department of the Navy	37,174	0	5,602	4,917	6,064	20,591	0	0	0	0
Department of Energy	143,684	0	66,911	0	76,773	0	0	0	0	0
Energy Efficiency and Renewable Energy	28	0	28	0	0	0	0	0	0	0
Office of Science	143,656	0	66,883	0	76,773	0	0	0	0	0
Department of Health and Human Services	13,193,851	0	7,114,940	0	5,260,661	818,250	950,003	0	32	949,971
Agency for Healthcare Research and Quality	53,093	0	0	0	52,156	937	324	0	32	292
Centers for Disease Control and Prevention	173,597	0	0	0	173,597	0	0	0	0	0
Centers for Medicare and Medicaid Services	3,393	0	0	0	0	3,393	0	0	0	0
Food and Drug Administration	14,504	0	14,504	0	0	0	0	0	0	0
Health Resources and Services Administration	11,364	0	0	0	6,365	4,999	0	0	0	0
National Institutes of Health	12,937,900	0	7,100,436	0	5,028,543	808,921	949,679	0	0	949,679
Department of Homeland Security	2,819	73	2,640	24	82	0	124	15	82	27
Science and Technology Directorate	2,819	73	2,640	24	82	0	124	15	82	27

TABLE 61. Federal obligations for research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
Other agencies										
National Aeronautics and Space Administration	25,782	137	13,290	1,084	8,214	3,057	1,521	35	892	594
National Science Foundation	517,160	0	417,357	99,803	0	0	4,575	0	4,575	0

nec = not elsewhere classified.

<sup>a</sup> Excluding environmental biology.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented approximately 97% of total federal research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 62. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies	1,040,882	675,731	350,635	14,516	397,254	10,400	62,216	9,249	21,988	293,401
Departments										
Department of Agriculture	635	191	444	0	59,065	36	42,876	0	15,242	911
Agricultural Research Service	130	0	130	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	50,217	0	35,890	0	14,327	0
Economic Research Service	0	0	0	0	4,865	0	4,865	0	0	0
Forest Service	265	191	74	0	3,413	36	1,551	0	915	911
National Agricultural Statistics Service	240	0	240	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	570	0	570	0	0	0
Department of Defense	204,957	135,907	58,381	10,669	219	52	0	0	0	167
Defense agencies and activities	102,019	61,318	37,424	3,277	0	0	0	0	0	0
Defense Advanced Research Projects Agency	90,240	55,512	32,086	2,642	0	0	0	0	0	0
Defense Threat Reduction Agency	660	25	0	635	0	0	0	0	0	0
Office of the Secretary of Defense <sup>a</sup>	11,119	5,781	5,338	0	0	0	0	0	0	0
Department of the Air Force	25,825	15,869	3,569	6,387	0	0	0	0	0	0
Materiel Command	25,825	15,869	3,569	6,387	0	0	0	0	0	0
Department of the Army	55,169	43,741	10,659	769	219	52	0	0	0	167
Department of the Navy	21,944	14,979	6,729	236	0	0	0	0	0	0
Department of Energy	33,844	18,647	15,197	0	0	0	0	0	0	0
National Nuclear Security Administration	109	0	109	0	0	0	0	0	0	0
Nonproliferation and Verification	109	0	109	0	0	0	0	0	0	0
Office of Science	33,735	18,647	15,088	0	0	0	0	0	0	0
Department of Health and Human Services	94,637	150	93,955	532	184,943	27	2,352	53	578	181,933
Administration for Children and Families	0	0	0	0	12,211	0	0	0	0	12,211
Agency for Healthcare Research and Quality	682	150	0	532	8,897	27	2,352	53	578	5,887
National Institutes of Health	93,955	0	93,955	0	159,982	0	0	0	0	159,982
Office of the Secretary	0	0	0	0	3,853	0	0	0	0	3,853
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	3,853	0	0	0	0	3,853
Department of Homeland Security	312	126	74	112	463	0	66	320	62	15
Science and Technology Directorate	312	126	74	112	463	0	66	320	62	15

TABLE 62. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
Other agencies										
National Aeronautics and Space Administration	7,218	3,696	319	3,203	107	0	0	0	39	68
National Science Foundation	699,279	517,014	182,265	0	152,457	10,285	16,922	8,876	6,067	110,307

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented approximately 97% of total federal research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 63. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies	1,899,979	130,048	45,200	96,484	66,056	241,441	61,340	297,139	962,271
Departments									
Department of Agriculture	16,424	0	0	464	140	79	99	0	15,642
Agricultural Research Service	897	0	0	449	140	79	99	0	130
Cooperative State Research, Education, and Extension Service	14,528	0	0	0	0	0	0	0	14,528
Forest Service	999	0	0	15	0	0	0	0	984
Department of Defense	571,730	34,224	6,895	8,932	5,289	151,789	53,709	101,057	209,835
Defense agencies and activities	132,137	5,643	0	2,680	1,566	43,489	7,092	22,070	49,597
Defense Advanced Research Projects Agency	107,766	5,146	0	1,059	0	30,178	3,886	19,085	48,412
Defense Threat Reduction Agency	1,185	0	0	0	0	0	0	0	1,185
Office of the Secretary of Defense <sup>a</sup>	23,186	497	0	1,621	1,566	13,311	3,206	2,985	0
Department of the Air Force	99,349	21,473	5,787	2,571	1,493	15,475	3,917	31,522	17,111
Materiel Command	99,349	21,473	5,787	2,571	1,493	15,475	3,917	31,522	17,111
Department of the Army	128,817	602	0	3,681	2,230	47,024	25,202	24,140	25,938
Department of the Navy	211,427	6,506	1,108	0	0	45,801	17,498	23,325	117,189
Department of Energy	152,679	0	0	24,914	4,287	13,604	1,477	19,077	89,320
Electricity Delivery and Energy Restoration	10,608	0	0	0	0	10,608	0	0	0
Energy Efficiency and Renewable Energy	21,595	0	0	0	4,287	2,846	25	28	14,409
Fossil Energy	24,914	0	0	24,914	0	0	0	0	0
National Nuclear Security Administration	69,350	0	0	0	0	150	0	1,220	67,980
Defense Programs	67,980	0	0	0	0	0	0	0	67,980
Nonproliferation and Verification	1,370	0	0	0	0	150	0	1,220	0
Nuclear Energy	6,931	0	0	0	0	0	0	0	6,931
Office of Science	19,281	0	0	0	0	0	1,452	17,829	0
Department of Health and Human Services	461,975	0	0	0	0	0	0	43,437	418,538
National Institutes of Health	461,975	0	0	0	0	0	0	43,437	418,538
Department of Homeland Security	1,790	24	0	20	113	15	24	30	1,564
Science and Technology Directorate	1,790	24	0	20	113	15	24	30	1,564

TABLE 63. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical	Astronautical	Chemical	Civil	Electrical	Mechanical	Metallurgy and materials	Engineering, nec
		engineering	engineering	engineering	engineering	engineering	engineering	engineering	
Other agencies									
National Aeronautics and Space Administration	151,191	95,800	38,305	473	42	2,735	1,886	2,456	9,494
National Science Foundation	544,190	0	0	61,681	56,185	73,219	4,145	131,082	217,878

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Research obligations of these seven agencies represented approximately 97% of total federal research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2006–08  
(Dollars in thousands)

Field	2006	Preliminary	
		2007	2008
All fields	13,611,840	13,882,196	13,964,289
Environmental sciences	807,904	832,873	863,351
Atmospheric sciences	203,390	NA	NA
Geological sciences	191,051	NA	NA
Oceanography	264,520	NA	NA
Environmental sciences, nec	148,943	NA	NA
Life sciences	8,292,840	8,322,247	8,212,587
Agricultural sciences	141,158	NA	NA
Biological sciences (excluding environmental biology)	4,590,752	NA	NA
Environmental biology	154,669	NA	NA
Medical sciences	2,927,517	NA	NA
Life sciences, nec	478,744	NA	NA
Mathematics and computer sciences	840,173	867,061	926,608
Computer sciences	546,099	NA	NA
Mathematics	286,657	NA	NA
Mathematics and computer sciences, nec	7,417	NA	NA
Physical sciences	1,348,003	1,407,132	1,489,183
Astronomy	158,152	NA	NA
Chemistry	437,951	NA	NA
Physics	611,131	NA	NA
Physical sciences, nec	140,769	NA	NA
Psychology	547,218	548,326	545,679
Biological aspects	348	NA	NA
Social aspects	3,815	NA	NA
Psychological sciences, nec	543,055	NA	NA
Social sciences	247,600	259,438	263,472
Anthropology	10,199	NA	NA
Economics	28,093	NA	NA
Political science	8,031	NA	NA
Sociology	11,294	NA	NA
Social sciences, nec	189,983	NA	NA
Other sciences, nec	494,856	515,314	532,599
Engineering	1,033,246	1,129,805	1,130,810
Aeronautical engineering	53,603	NA	NA
Astronautical engineering	13,725	NA	NA
Chemical engineering	55,153	NA	NA
Civil engineering	42,926	NA	NA
Electrical engineering	135,672	NA	NA
Mechanical engineering	39,198	NA	NA
Metallurgy and materials engineering	231,728	NA	NA
Engineering, nec	461,241	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2006, 2007, and 2008. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 65. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	13,611,840	807,904	8,292,840	840,173	1,348,003	547,218	247,600	494,856	1,033,246
Departments									
Department of Agriculture	292,892	4,785	250,416	94	10,092	0	20,867	0	6,638
Agricultural Research Service	54,280	239	49,867	71	3,615	0	0	0	488
Cooperative State Research, Education, and Extension Service	231,712	3,977	195,466	0	6,371	0	20,087	0	5,811
Foreign Agricultural Service	97	0	97	0	0	0	0	0	0
Forest Service	6,803	569	4,986	23	106	0	780	0	339
Department of Defense	690,141	89,573	76,247	110,045	104,110	7,615	8	67,295	235,248
Defense agencies and activities	98,127	180	22,025	23,574	10,274	311	0	0	41,763
Chemical and Biological Defense	5,179	0	2,069	0	3,110	0	0	0	0
Defense Advanced Research Projects Agency	62,195	0	17,680	17,498	3,380	0	0	0	23,637
Office of the Secretary of Defense <sup>a</sup>	30,753	180	2,276	6,076	3,784	311	0	0	18,126
Department of the Air Force	187,940	0	8,855	23,148	25,583	3,542	0	67,295	59,517
Materiel Command	187,940	0	8,855	23,148	25,583	3,542	0	67,295	59,517
Department of the Army	161,681	5,956	14,931	44,819	33,869	3,762	8	0	58,336
Department of the Navy	242,393	83,437	30,436	18,504	34,384	0	0	0	75,632
Department of Energy	632,483	61,325	143,684	33,735	373,662	0	0	312	19,765
Energy Efficiency and Renewable Energy	119	0	28	0	91	0	0	0	0
Fossil Energy	7,255	0	0	0	7,255	0	0	0	0
National Nuclear Security Administration	796	0	0	0	0	0	0	312	484
Nonproliferation and Verification	796	0	0	0	0	0	0	312	484
Office of Science	624,313	61,325	143,656	33,735	366,316	0	0	0	19,281
Department of Health and Human Services	8,729,756	120,376	7,291,801	52,953	146,861	535,239	90,166	231,991	260,369
National Institutes of Health	8,729,756	120,376	7,291,801	52,953	146,861	535,239	90,166	231,991	260,369
Department of Homeland Security	1,129	0	378	42	225	17	62	166	239
Science and Technology Directorate	1,129	0	378	42	225	17	62	166	239
Other agencies									
National Aeronautics and Space Administration	347,943	98,818	15,435	3,452	136,956	612	107	28,189	64,374
National Science Foundation	2,917,496	433,027	514,879	639,852	576,097	3,735	136,390	166,903	446,613

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 66. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	13,882,196	832,873	8,322,247	867,061	1,407,132	548,326	259,438	515,314	1,129,805
Departments									
Department of Agriculture	327,398	3,188	274,793	87	12,747	0	26,247	0	10,336
Agricultural Research Service	49,394	217	45,378	64	3,290	0	0	0	445
Cooperative State Research, Education, and Extension Service	271,104	2,402	224,332	0	9,351	0	25,467	0	9,552
Foreign Agricultural Service	97	0	97	0	0	0	0	0	0
Forest Service	6,803	569	4,986	23	106	0	780	0	339
Department of Defense	785,081	97,722	93,857	118,750	110,402	8,637	7	78,663	277,043
Defense agencies and activities	142,947	323	31,731	35,477	10,374	559	0	3,350	61,133
Chemical and Biological Defense	3,286	0	2,235	0	1,051	0	0	0	0
Defense Advanced Research Projects Agency	99,770	0	27,163	28,069	5,421	0	0	0	39,117
Defense Threat Reduction Agency	3,350	0	0	0	0	0	0	3,350	0
Office of the Secretary of Defense <sup>a</sup>	36,541	323	2,333	7,408	3,902	559	0	0	22,016
Department of the Air Force	207,800	0	9,910	18,285	26,813	3,964	0	75,313	73,515
Materiel Command	207,800	0	9,910	18,285	26,813	3,964	0	75,313	73,515
Department of the Army	162,969	5,867	17,674	43,539	34,095	4,114	7	0	57,673
Department of the Navy	271,365	91,532	34,542	21,449	39,120	0	0	0	84,722
Department of Energy	628,584	59,066	104,436	20,629	396,149	0	0	0	48,304
Energy Efficiency and Renewable Energy	57	0	13	0	44	0	0	0	0
Fossil Energy	7,373	0	0	0	7,373	0	0	0	0
Office of Science	621,154	59,066	104,423	20,629	388,732	0	0	0	48,304
Department of Health and Human Services	8,727,194	120,340	7,289,661	52,938	146,818	535,081	90,140	231,923	260,293
National Institutes of Health	8,727,194	120,340	7,289,661	52,938	146,818	535,081	90,140	231,923	260,293
Department of Homeland Security	8,721	0	4,482	643	412	82	0	1,644	1,458
Science and Technology Directorate	8,721	0	4,482	643	412	82	0	1,644	1,458
Other agencies									
National Aeronautics and Space Administration	347,684	98,745	15,425	3,449	136,855	612	107	28,169	64,322
National Science Foundation	3,057,534	453,812	539,593	670,565	603,749	3,914	142,937	174,915	468,049

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2007. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 67. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	13,964,289	863,351	8,212,587	926,608	1,489,183	545,679	263,472	532,599	1,130,810
Departments									
Department of Agriculture	233,185	2,459	196,313	44	8,206	0	18,751	0	7,412
Agricultural Research Service	16,300	72	14,975	21	1,085	0	0	0	147
Cooperative State Research, Education, and Extension Service	209,985	1,818	176,255	0	7,015	0	17,971	0	6,926
Foreign Agricultural Service	97	0	97	0	0	0	0	0	0
Forest Service	6,803	569	4,986	23	106	0	780	0	339
Department of Defense	748,709	91,438	87,368	115,321	109,676	7,769	8	82,508	254,621
Defense agencies and activities	157,703	762	33,558	39,841	15,748	1,320	0	2,053	64,421
Chemical and Biological Defense	8,462	0	2,962	0	5,500	0	0	0	0
Defense Advanced Research Projects Agency	98,116	0	27,893	27,604	5,331	0	0	0	37,288
Defense Threat Reduction Agency	2,053	0	0	0	0	0	0	2,053	0
Office of the Secretary of Defense <sup>a</sup>	49,072	762	2,703	12,237	4,917	1,320	0	0	27,133
Department of the Air Force	202,180	0	9,599	17,452	26,008	3,840	0	80,455	64,826
Materiel Command	202,180	0	9,599	17,452	26,008	3,840	0	80,455	64,826
Department of the Army	136,955	5,719	12,150	38,119	31,611	2,609	8	0	46,739
Department of the Navy	251,871	84,957	32,061	19,909	36,309	0	0	0	78,635
Department of Energy	620,509	58,466	64,381	28,258	432,803	0	0	0	36,601
Energy Efficiency and Renewable Energy	87	0	20	0	67	0	0	0	0
Fossil Energy	8,279	0	0	0	8,279	0	0	0	0
Office of Science	612,143	58,466	64,361	28,258	424,457	0	0	0	36,601
Department of Health and Human Services	8,693,145	119,871	7,261,220	52,731	146,245	532,994	89,788	231,018	259,278
National Institutes of Health	8,693,145	119,871	7,261,220	52,731	146,245	532,994	89,788	231,018	259,278
Department of Homeland Security	6,435	0	3,307	475	304	60	0	1,213	1,076
Science and Technology Directorate	6,435	0	3,307	475	304	60	0	1,213	1,076

TABLE 67. Preliminary federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Other agencies									
National Aeronautics and Space Administration	350,641	99,585	15,556	3,479	138,019	617	108	28,407	64,870
National Science Foundation	3,311,665	491,532	584,442	726,300	653,930	4,239	154,817	189,453	506,952

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2008. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 68. Federal obligations for basic research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies surveyed	807,904	203,390	191,051	264,520	148,943	1,348,003	158,152	437,951	611,131	140,769
Departments										
Department of Agriculture	4,785	4,587	198	0	0	10,092	0	9,924	168	0
Agricultural Research Service	239	233	6	0	0	3,615	0	3,447	168	0
Cooperative State Research, Education, and Extension Service	3,977	3,977	0	0	0	6,371	0	6,371	0	0
Forest Service	569	377	192	0	0	106	0	106	0	0
Department of Defense	89,573	6,643	4,850	78,080	0	104,110	0	43,823	48,590	11,697
Defense agencies and activities	180	0	180	0	0	10,274	0	1,946	5,218	3,110
Chemical and Biological Defense	0	0	0	0	0	3,110	0	0	0	3,110
Defense Advanced Research Projects Agency	0	0	0	0	0	3,380	0	0	3,380	0
Office of the Secretary of Defense <sup>a</sup>	180	0	180	0	0	3,784	0	1,946	1,838	0
Department of the Air Force	0	0	0	0	0	25,583	0	4,603	20,095	885
Materiel Command	0	0	0	0	0	25,583	0	4,603	20,095	885
Department of the Army	5,956	1,286	4,670	0	0	33,869	0	20,564	11,588	1,717
Department of the Navy	83,437	5,357	0	78,080	0	34,384	0	16,710	11,689	5,985
Department of Energy	61,325	27,999	30,608	2,718	0	373,662	0	72,721	300,941	0
Energy Efficiency and Renewable Energy	0	0	0	0	0	91	0	91	0	0
Fossil Energy	0	0	0	0	0	7,255	0	7,255	0	0
Office of Science	61,325	27,999	30,608	2,718	0	366,316	0	65,375	300,941	0
Department of Health and Human Services	120,376	0	0	0	120,376	146,861	0	138,028	0	8,833
National Institutes of Health	120,376	0	0	0	120,376	146,861	0	138,028	0	8,833
Department of Homeland Security	0	0	0	0	0	225	0	97	126	2
Science and Technology Directorate	0	0	0	0	0	225	0	97	126	2
Other agencies										
National Aeronautics and Space Administration	98,818	60,541	24,564	5,846	7,867	136,956	84,992	6,162	39,643	6,159
National Science Foundation	433,027	103,620	130,831	177,876	20,700	576,097	73,160	167,196	221,663	114,078

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 69. Federal obligations for basic research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies surveyed	8,292,840	141,158	4,590,752	154,669	2,927,517	478,744	547,218	348	3,815	543,055
Departments										
Department of Agriculture	250,416	141,030	57,226	47,855	4,305	0	0	0	0	0
Agricultural Research Service	49,867	38,740	3,474	6,768	885	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	195,466	102,189	50,170	39,687	3,420	0	0	0	0	0
Foreign Agricultural Service	97	97	0	0	0	0	0	0	0	0
Forest Service	4,986	4	3,582	1,400	0	0	0	0	0	0
Department of Defense	76,247	23	37,961	7,734	10,241	20,288	7,615	311	0	7,304
Defense agencies and activities	22,025	0	17,497	595	2,069	1,864	311	311	0	0
Chemical and Biological Defense	2,069	0	0	0	2,069	0	0	0	0	0
Defense Advanced Research Projects Agency	17,680	0	16,736	0	0	944	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	2,276	0	761	595	0	920	311	311	0	0
Department of the Air Force	8,855	0	3,896	2,214	0	2,745	3,542	0	0	3,542
Materiel Command	8,855	0	3,896	2,214	0	2,745	3,542	0	0	3,542
Department of the Army	14,931	23	11,668	8	3,232	0	3,762	0	0	3,762
Department of the Navy	30,436	0	4,900	4,917	4,940	15,679	0	0	0	0
Department of Energy	143,684	0	66,911	0	76,773	0	0	0	0	0
Energy Efficiency and Renewable Energy	28	0	28	0	0	0	0	0	0	0
Office of Science	143,656	0	66,883	0	76,773	0	0	0	0	0
Department of Health and Human Services	7,291,801	0	4,001,806	0	2,834,087	455,908	535,239	0	0	535,239
National Institutes of Health	7,291,801	0	4,001,806	0	2,834,087	455,908	535,239	0	0	535,239
Department of Homeland Security	378	10	354	3	11	0	17	2	11	4
Science and Technology Directorate	378	10	354	3	11	0	17	2	11	4
Other agencies										
National Aeronautics and Space Administration	15,435	95	9,925	767	2,100	2,548	612	35	69	508
National Science Foundation	514,879	0	416,569	98,310	0	0	3,735	0	3,735	0

nec = not elsewhere classified.

<sup>a</sup> Excluding environmental biology.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 70. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
All agencies surveyed	840,173	546,099	286,657	7,417	247,600	10,199	28,093	8,031	11,294	189,983
Departments										
Department of Agriculture	94	0	94	0	20,867	0	14,414	0	6,100	353
Agricultural Research Service	71	0	71	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	20,087	0	14,356	0	5,731	0
Forest Service	23	0	23	0	780	0	58	0	369	353
Department of Defense	110,045	66,670	36,680	6,695	8	0	0	0	0	8
Defense agencies and activities	23,574	6,994	16,580	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency	17,498	3,734	13,764	0	0	0	0	0	0	0
Office of the Secretary of Defense <sup>a</sup>	6,076	3,260	2,816	0	0	0	0	0	0	0
Department of the Air Force	23,148	13,709	3,453	5,986	0	0	0	0	0	0
Materiel Command	23,148	13,709	3,453	5,986	0	0	0	0	0	0
Department of the Army	44,819	34,428	9,918	473	8	0	0	0	0	8
Department of the Navy	18,504	11,539	6,729	236	0	0	0	0	0	0
Department of Energy	33,735	18,647	15,088	0	0	0	0	0	0	0
Office of Science	33,735	18,647	15,088	0	0	0	0	0	0	0
Department of Health and Human Services	52,953	0	52,953	0	90,166	0	0	0	0	90,166
National Institutes of Health	52,953	0	52,953	0	90,166	0	0	0	0	90,166
Department of Homeland Security	42	17	10	15	62	0	9	43	8	2
Science and Technology Directorate	42	17	10	15	62	0	9	43	8	2
Other agencies										
National Aeronautics and Space Administration	3,452	2,570	175	707	107	0	0	0	39	68
National Science Foundation	639,852	458,195	181,657	0	136,390	10,199	13,670	7,988	5,147	99,386

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 71. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies surveyed	1,033,246	53,603	13,725	55,153	42,926	135,672	39,198	231,728	461,241
Departments									
Department of Agriculture	6,638	0	0	244	76	43	54	0	6,221
Agricultural Research Service	488	0	0	244	76	43	54	0	71
Cooperative State Research, Education, and Extension Service	5,811	0	0	0	0	0	0	0	5,811
Forest Service	339	0	0	0	0	0	0	0	339
Department of Defense	235,248	12,821	3,967	4,817	687	75,168	32,956	55,704	49,128
Defense agencies and activities	41,763	497	0	356	301	15,133	1,941	6,040	17,495
Defense Advanced Research Projects Agency	23,637	0	0	0	0	3,087	0	3,055	17,495
Office of the Secretary of Defense <sup>a</sup>	18,126	497	0	356	301	12,046	1,941	2,985	0
Department of the Air Force	59,517	10,345	3,967	2,571	0	9,634	567	18,701	13,732
Materiel Command	59,517	10,345	3,967	2,571	0	9,634	567	18,701	13,732
Department of the Army	58,336	0	0	1,890	386	24,409	17,259	14,293	99
Department of the Navy	75,632	1,979	0	0	0	25,992	13,189	16,670	17,802
Department of Energy	19,765	0	0	0	0	0	1,452	18,313	0
National Nuclear Security Administration	484	0	0	0	0	0	0	484	0
Nonproliferation and Verification	484	0	0	0	0	0	0	484	0
Office of Science	19,281	0	0	0	0	0	1,452	17,829	0
Department of Health and Human Services	260,369	0	0	0	0	0	0	24,481	235,888
National Institutes of Health	260,369	0	0	0	0	0	0	24,481	235,888
Department of Homeland Security	239	3	0	2	15	2	3	4	210
Science and Technology Directorate	239	3	0	2	15	2	3	4	210
Other agencies									
National Aeronautics and Space Administration	64,374	40,779	9,758	449	40	1,974	1,377	2,279	7,718
National Science Foundation	446,613	0	0	49,641	42,108	58,485	3,356	130,947	162,076

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Basic research obligations of these seven agencies represented over 99% of total federal basic research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: FY 2006–08  
(Dollars in thousands)

Field	2006	Preliminary	
		2007	2008
All fields	8,619,676	8,940,234	8,703,757
Environmental sciences	178,167	172,877	164,894
Atmospheric sciences	30,045	NA	NA
Geological sciences	5,367	NA	NA
Oceanography	17,302	NA	NA
Environmental sciences, nec	125,453	NA	NA
Life sciences	6,367,681	6,506,320	6,382,383
Agricultural sciences	187,219	NA	NA
Biological sciences (excluding environmental biology)	3,227,755	NA	NA
Environmental biology	73,093	NA	NA
Medical sciences	2,507,676	NA	NA
Life sciences, nec	371,938	NA	NA
Mathematics and computer sciences	200,709	262,530	246,149
Computer sciences	129,632	NA	NA
Mathematics	63,978	NA	NA
Mathematics and computer sciences, nec	7,099	NA	NA
Physical sciences	235,797	254,252	249,732
Astronomy	9,057	NA	NA
Chemistry	148,772	NA	NA
Physics	27,621	NA	NA
Physical sciences, nec	50,347	NA	NA
Psychology	418,300	422,772	427,429
Biological aspects	853	NA	NA
Social aspects	2,606	NA	NA
Psychological sciences, nec	414,841	NA	NA
Social sciences	149,654	162,580	151,936
Anthropology	201	NA	NA
Economics	34,123	NA	NA
Political science	1,218	NA	NA
Sociology	10,694	NA	NA
Social sciences, nec	103,418	NA	NA
Other sciences, nec	202,635	209,071	209,598
Engineering	866,733	949,832	871,636
Aeronautical engineering	76,445	NA	NA
Astronautical engineering	31,475	NA	NA
Chemical engineering	41,331	NA	NA
Civil engineering	23,130	NA	NA
Electrical engineering	105,769	NA	NA
Mechanical engineering	22,142	NA	NA
Metallurgy and materials engineering	65,411	NA	NA
Engineering, nec	501,030	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	8,619,676	178,167	6,367,681	200,709	235,797	418,300	149,654	202,635	866,733
Departments									
Department of Agriculture	415,436	8,039	346,270	541	12,602	0	38,198	0	9,786
Agricultural Marketing Service	173	0	173	0	0	0	0	0	0
Agricultural Research Service	45,418	200	41,725	59	3,025	0	0	0	409
Cooperative State Research, Education, and Extension Service	347,638	5,966	293,268	0	9,557	0	30,130	0	8,717
Economic Research Service	4,865	0	0	0	0	0	4,865	0	0
Foreign Agricultural Service	248	0	248	0	0	0	0	0	0
Forest Service	16,284	1,873	10,856	242	20	0	2,633	0	660
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Rural Business-Cooperative Service	570	0	0	0	0	0	570	0	0
Department of Defense	639,519	24,832	104,292	94,912	76,045	1,680	211	1,065	336,482
Defense agencies and activities	311,673	4,069	81,427	78,445	55,097	1,680	0	581	90,374
Chemical and Biological Defense	13,821	0	4,837	0	8,984	0	0	0	0
Defense Advanced Research Projects Agency	254,615	2,389	55,380	72,742	39,975	0	0	0	84,129
Defense Threat Reduction Agency	7,398	0	700	660	4,272	0	0	581	1,185
Office of the Secretary of Defense <sup>a</sup>	35,839	1,680	20,510	5,043	1,866	1,680	0	0	5,060
Department of the Air Force	55,796	4,068	3,488	2,677	5,247	0	0	484	39,832
Materiel Command	55,796	4,068	3,488	2,677	5,247	0	0	484	39,832
Department of the Army	111,527	3,098	12,639	10,350	14,748	0	211	0	70,481
Department of the Navy	160,523	13,597	6,738	3,440	953	0	0	0	135,795
Department of Energy	173,586	26,786	0	109	12,375	0	0	1,402	132,914
Electricity Delivery and Energy Restoration	10,608	0	0	0	0	0	0	0	10,608
Energy Efficiency and Renewable Energy	21,595	0	0	0	0	0	0	0	21,595
Environmental Management	10,011	10,011	0	0	0	0	0	0	0
Fossil Energy	52,131	14,842	0	0	12,375	0	0	0	24,914
National Nuclear Security Administration	72,310	1,933	0	109	0	0	0	1,402	68,866
Defense Programs	67,980	0	0	0	0	0	0	0	67,980
Nonproliferation and Verification	4,330	1,933	0	109	0	0	0	1,402	886
Nuclear Energy	6,931	0	0	0	0	0	0	0	6,931
Department of Health and Human Services	7,052,661	95,330	5,902,050	41,684	113,716	414,764	94,777	188,734	201,606
Administration for Children and Families	12,211	0	0	0	0	0	12,211	0	0
Agency for Healthcare Research and Quality	72,097	0	53,093	682	0	324	8,897	9,101	0
Agency for Toxic Substances and Disease Registry	2,122	2,122	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	173,597	0	173,597	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	3,393	0	3,393	0	0	0	0	0	0
Food and Drug Administration	14,504	0	14,504	0	0	0	0	0	0

TABLE 73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2006  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
				and computer sciences					
Health Resources and Services Administration	11,364	0	11,364	0	0	0	0	0	0
National Institutes of Health	6,759,520	93,208	5,646,099	41,002	113,716	414,440	69,816	179,633	201,606
Office of the Secretary	3,853	0	0	0	0	0	3,853	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,853	0	0	0	0	0	3,853	0	0
Department of Homeland Security	7,295	0	2,441	270	1,456	107	401	1,069	1,551
Science and Technology Directorate	7,295	0	2,441	270	1,456	107	401	1,069	1,551
Other agencies									
National Aeronautics and Space Administration	137,194	21,130	10,347	3,766	13,354	909	0	871	86,817
National Science Foundation	193,985	2,050	2,281	59,427	6,249	840	16,067	9,494	97,577

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 74. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	8,940,234	172,877	6,506,320	262,530	254,252	422,772	162,580	209,071	949,832
Departments									
Department of Agriculture	470,017	5,658	385,744	536	16,799	0	45,919	0	15,361
Agricultural Marketing Service	173	0	173	0	0	0	0	0	0
Agricultural Research Service	41,330	182	37,970	54	2,752	0	0	0	372
Cooperative State Research, Education, and Extension Service	406,657	3,603	336,497	0	14,027	0	38,201	0	14,329
Economic Research Service	4,500	0	0	0	0	0	4,500	0	0
Foreign Agricultural Service	248	0	248	0	0	0	0	0	0
Forest Service	16,284	1,873	10,856	242	20	0	2,633	0	660
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Rural Business-Cooperative Service	585	0	0	0	0	0	585	0	0
Department of Defense	824,278	25,569	164,555	135,759	88,064	3,531	224	874	405,702
Defense agencies and activities	439,974	5,641	105,035	120,083	67,657	1,896	0	304	139,358
Chemical and Biological Defense	1,762	0	1,057	0	705	0	0	0	0
Defense Advanced Research Projects Agency	399,207	3,745	86,831	114,050	62,676	0	0	0	131,905
Defense Threat Reduction Agency	3,861	0	365	344	2,230	0	0	304	618
Office of the Secretary of Defense <sup>a</sup>	35,144	1,896	16,782	5,689	2,046	1,896	0	0	6,835
Department of the Air Force	48,305	3,735	1,107	2,055	4,305	0	0	70	37,033
Materiel Command	48,305	3,735	1,107	2,055	4,305	0	0	70	37,033
Department of the Army	154,920	855	50,814	9,741	15,028	1,635	224	500	76,123
Department of the Navy	181,079	15,338	7,599	3,880	1,074	0	0	0	153,188
Department of Energy	138,312	20,844	0	0	12,115	0	0	0	105,353
Electricity Delivery and Energy Restoration	5,344	0	0	0	0	0	0	0	5,344
Energy Efficiency and Renewable Energy	35,176	0	0	0	0	0	0	0	35,176
Environmental Management	6,288	6,288	0	0	0	0	0	0	0
Fossil Energy	41,494	14,556	0	0	12,115	0	0	0	14,823
National Nuclear Security Administration	44,150	0	0	0	0	0	0	0	44,150
Defense Programs	44,150	0	0	0	0	0	0	0	44,150
Nuclear Energy	5,860	0	0	0	0	0	0	0	5,860
Department of Health and Human Services	7,086,356	96,861	5,928,745	41,902	114,320	416,965	95,197	189,689	202,677
Administration for Children and Families	12,467	0	0	0	0	0	12,467	0	0
Agency for Healthcare Research and Quality	72,101	0	53,096	682	0	324	8,897	9,102	0
Agency for Toxic Substances and Disease Registry	3,158	3,158	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	170,270	0	170,270	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	3,472	0	3,472	0	0	0	0	0	0
Food and Drug Administration	14,452	0	14,452	0	0	0	0	0	0
Health Resources and Services Administration	11,364	0	11,364	0	0	0	0	0	0

TABLE 74. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2007  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
National Institutes of Health	6,795,426	93,703	5,676,091	41,220	114,320	416,641	70,187	180,587	202,677
Office of the Secretary	3,646	0	0	0	0	0	3,646	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,646	0	0	0	0	0	3,646	0	0
Department of Homeland Security	26,976	0	13,864	1,990	1,274	253	0	5,086	4,509
Science and Technology Directorate	26,976	0	13,864	1,990	1,274	253	0	5,086	4,509
Other agencies									
National Aeronautics and Space Administration	137,861	21,234	10,396	3,785	13,419	913	0	875	87,239
National Science Foundation	256,434	2,711	3,016	78,558	8,261	1,110	21,240	12,547	128,991

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented approximately 95% of total federal applied research obligations to universities and colleges in FY 2007. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 75. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
All agencies surveyed	8,703,757	164,894	6,382,383	246,149	249,732	427,429	151,936	209,598	871,636
Departments									
Department of Agriculture	304,338	4,247	248,131	500	9,857	0	32,005	0	9,598
Agricultural Marketing Service	173	0	173	0	0	0	0	0	0
Agricultural Research Service	13,639	60	12,530	18	908	0	0	0	123
Cooperative State Research, Education, and Extension Service	267,254	2,314	224,324	0	8,929	0	22,872	0	8,815
Economic Research Service	6,500	0	0	0	0	0	6,500	0	0
Foreign Agricultural Service	248	0	248	0	0	0	0	0	0
Forest Service	16,284	1,873	10,856	242	20	0	2,633	0	660
National Agricultural Statistics Service	240	0	0	240	0	0	0	0	0
Department of Defense	675,897	21,634	114,922	119,234	89,895	3,318	2,012	257	324,625
Defense agencies and activities	424,089	4,996	99,691	110,760	77,270	1,515	1,800	188	127,869
Chemical and Biological Defense	33,173	0	17,249	0	15,924	0	0	0	0
Defense Advanced Research Projects Agency	371,027	3,481	80,701	106,003	58,251	0	0	0	122,591
Defense Threat Reduction Agency	2,390	0	226	213	1,380	0	0	188	383
Office of the Secretary of Defense <sup>a</sup>	17,499	1,515	1,515	4,544	1,715	1,515	1,800	0	4,895
Department of the Air Force	51,377	4,033	0	2,403	3,965	0	0	69	40,907
Materiel Command	51,377	4,033	0	2,403	3,965	0	0	69	40,907
Department of the Army	56,356	403	9,185	2,982	7,805	1,803	212	0	33,966
Department of the Navy	144,075	12,202	6,046	3,089	855	0	0	0	121,883
Department of Energy	146,270	19,353	0	0	12,050	0	0	0	114,867
Electricity Delivery and Energy Restoration	4,635	0	0	0	0	0	0	0	4,635
Energy Efficiency and Renewable Energy	37,682	0	0	0	0	0	0	0	37,682
Environmental Management	6,288	6,288	0	0	0	0	0	0	0
Fossil Energy	38,621	13,065	0	0	12,050	0	0	0	13,506
National Nuclear Security Administration	53,044	0	0	0	0	0	0	0	53,044
Defense Programs	53,044	0	0	0	0	0	0	0	53,044
Nuclear Energy	6,000	0	0	0	0	0	0	0	6,000
Department of Health and Human Services	7,166,160	96,335	5,995,986	42,414	115,677	421,924	96,597	192,143	205,084
Administration for Children and Families	12,729	0	0	0	0	0	12,729	0	0
Agency for Healthcare Research and Quality	74,561	0	54,908	705	0	335	9,201	9,412	0
Agency for Toxic Substances and Disease Registry	1,520	1,520	0	0	0	0	0	0	0
Centers for Disease Control and Prevention	170,270	0	170,270	0	0	0	0	0	0
Centers for Medicare and Medicaid Services	1,975	0	1,975	0	0	0	0	0	0
Food and Drug Administration	13,971	0	13,971	0	0	0	0	0	0
Health Resources and Services Administration	11,364	0	11,364	0	0	0	0	0	0
National Institutes of Health	6,876,124	94,815	5,743,498	41,709	115,677	421,589	71,021	182,731	205,084

TABLE 75. Preliminary federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: FY 2008  
(Dollars in thousands)

Agency	Total	Environmental sciences	Life sciences	Mathematics and computer sciences	Physical sciences	Psychology	Social sciences	Other sciences, nec	Engineering
Office of the Secretary	3,646	0	0	0	0	0	3,646	0	0
Office of the Assistant Secretary, Planning and Evaluation	3,646	0	0	0	0	0	3,646	0	0
Department of Homeland Security	19,904	0	10,230	1,468	940	187	0	3,752	3,327
Science and Technology Directorate	19,904	0	10,230	1,468	940	187	0	3,752	3,327
Other agencies									
National Aeronautics and Space Administration	133,765	20,603	10,087	3,672	13,021	886	0	849	84,647
National Science Foundation	257,423	2,722	3,027	78,861	8,292	1,114	21,322	12,597	129,488

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented approximately 95% of total federal applied research obligations to universities and colleges in FY 2008. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 76. Federal obligations for applied research performed at universities and colleges in environmental and physical sciences, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Environmental sciences					Physical sciences				
	Total	Atmospheric sciences	Geological sciences	Oceanography	Environmental sciences, nec	Total	Astronomy	Chemistry	Physics	Physical sciences, nec
All agencies surveyed	178,167	30,045	5,367	17,302	125,453	235,797	9,057	148,772	27,621	50,347
Departments										
Department of Agriculture	8,039	7,731	308	0	0	12,602	0	12,461	141	0
Agricultural Research Service	200	195	5	0	0	3,025	0	2,884	141	0
Cooperative State Research, Education, and Extension Service	5,966	5,966	0	0	0	9,557	0	9,557	0	0
Forest Service	1,873	1,570	303	0	0	20	0	20	0	0
Department of Defense	24,832	6,647	2,445	11,717	4,023	76,045	7	14,325	22,041	39,672
Defense agencies and activities	4,069	840	0	840	2,389	55,097	0	9,345	11,697	34,055
Chemical and Biological Defense	0	0	0	0	0	8,984	0	0	0	8,984
Defense Advanced Research Projects Agency	2,389	0	0	0	2,389	39,975	0	8,437	6,467	25,071
Defense Threat Reduction Agency	0	0	0	0	0	4,272	0	0	4,272	0
Office of the Secretary of Defense <sup>a</sup>	1,680	840	0	840	0	1,866	0	908	958	0
Department of the Air Force	4,068	1,675	2,393	0	0	5,247	7	517	4,723	0
Materiel Command	4,068	1,675	2,393	0	0	5,247	7	517	4,723	0
Department of the Army	3,098	3,046	52	0	0	14,748	0	4,463	5,621	4,664
Department of the Navy	13,597	1,086	0	10,877	1,634	953	0	0	0	953
Department of Energy	26,786	821	1,112	0	24,853	12,375	0	12,375	0	0
Environmental Management	10,011	0	0	0	10,011	0	0	0	0	0
Fossil Energy	14,842	0	0	0	14,842	12,375	0	12,375	0	0
National Nuclear Security Administration	1,933	821	1,112	0	0	0	0	0	0	0
Nonproliferation and Verification	1,933	821	1,112	0	0	0	0	0	0	0
Department of Health and Human Services	95,330	0	0	0	95,330	113,716	0	106,876	0	6,840
Agency for Toxic Substances and Disease Registry	2,122	0	0	0	2,122	0	0	0	0	0
National Institutes of Health	93,208	0	0	0	93,208	113,716	0	106,876	0	6,840
Department of Homeland Security	0	0	0	0	0	1,456	0	630	813	13
Science and Technology Directorate	0	0	0	0	0	1,456	0	630	813	13
Other agencies										
National Aeronautics and Space Administration	21,130	14,576	1,432	3,902	1,220	13,354	9,009	455	3,274	616
National Science Foundation	2,050	270	70	1,683	27	6,249	41	1,650	1,352	3,206

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 77. Federal obligations for applied research performed at universities and colleges in life sciences and psychology, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Life sciences						Psychology			
	Total	Agricultural sciences	Biological sciences <sup>a</sup>	Environmental biology	Medical sciences	Life sciences, nec	Total	Biological aspects	Social aspects	Psychological sciences, nec
All agencies surveyed	6,367,681	187,219	3,227,755	73,093	2,507,676	371,938	418,300	853	2,606	414,841
Departments										
Department of Agriculture	346,270	186,222	83,351	70,827	5,870	0	0	0	0	0
Agricultural Marketing Service	173	173	0	0	0	0	0	0	0	0
Agricultural Research Service	41,725	32,415	2,907	5,663	740	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	293,268	153,352	75,255	59,531	5,130	0	0	0	0	0
Foreign Agricultural Service	248	248	0	0	0	0	0	0	0	0
Forest Service	10,856	34	5,189	5,633	0	0	0	0	0	0
Department of Defense	104,292	892	24,831	435	69,047	9,087	1,680	840	840	0
Defense agencies and activities	81,427	840	23,009	225	56,832	521	1,680	840	840	0
Chemical and Biological Defense	4,837	0	0	0	4,837	0	0	0	0	0
Defense Advanced Research Projects Agency	55,380	0	21,169	225	33,465	521	0	0	0	0
Defense Threat Reduction Agency	700	0	0	0	700	0	0	0	0	0
Office of the Secretary of Defense <sup>b</sup>	20,510	840	1,840	0	17,830	0	1,680	840	840	0
Department of the Air Force	3,488	0	215	0	0	3,273	0	0	0	0
Matériel Command	3,488	0	215	0	0	3,273	0	0	0	0
Department of the Army	12,639	52	905	210	11,091	381	0	0	0	0
Department of the Navy	6,738	0	702	0	1,124	4,912	0	0	0	0
Department of Health and Human Services	5,902,050	0	3,113,134	0	2,426,574	362,342	414,764	0	32	414,732
Agency for Healthcare Research and Quality	53,093	0	0	0	52,156	937	324	0	32	292
Centers for Disease Control and Prevention	173,597	0	0	0	173,597	0	0	0	0	0
Centers for Medicare and Medicaid Services	3,393	0	0	0	0	3,393	0	0	0	0
Food and Drug Administration	14,504	0	14,504	0	0	0	0	0	0	0
Health Resources and Services Administration	11,364	0	0	0	6,365	4,999	0	0	0	0
National Institutes of Health	5,646,099	0	3,098,630	0	2,194,456	353,013	414,440	0	0	414,440
Department of Homeland Security	2,441	63	2,286	21	71	0	107	13	71	23
Science and Technology Directorate	2,441	63	2,286	21	71	0	107	13	71	23
Other agencies										
National Aeronautics and Space Administration	10,347	42	3,365	317	6,114	509	909	0	823	86
National Science Foundation	2,281	0	788	1,493	0	0	840	0	840	0

nec = not elsewhere classified.

<sup>a</sup> Excluding environmental biology.

<sup>b</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 78. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Total	Computer sciences	Mathematics	Mathematics and computer sciences, nec	Total	Anthropology	Political science			Social sciences, nec
							Economics	Sociology		
All agencies surveyed	200,709	129,632	63,978	7,099	149,654	201	34,123	1,218	10,694	103,418
Departments										
Department of Agriculture	541	191	350	0	38,198	36	28,462	0	9,142	558
Agricultural Research Service	59	0	59	0	0	0	0	0	0	0
Cooperative State Research, Education, and Extension Service	0	0	0	0	30,130	0	21,534	0	8,596	0
Economic Research Service	0	0	0	0	4,865	0	4,865	0	0	0
Forest Service	242	191	51	0	2,633	36	1,493	0	546	558
National Agricultural Statistics Service	240	0	240	0	0	0	0	0	0	0
Rural Business-Cooperative Service	0	0	0	0	570	0	570	0	0	0
Department of Defense	94,912	69,237	21,701	3,974	211	52	0	0	0	159
Defense agencies and activities	78,445	54,324	20,844	3,277	0	0	0	0	0	0
Defense Advanced Research Projects Agency	72,742	51,778	18,322	2,642	0	0	0	0	0	0
Defense Threat Reduction Agency	660	25	0	635	0	0	0	0	0	0
Office of the Secretary of Defense <sup>a</sup>	5,043	2,521	2,522	0	0	0	0	0	0	0
Department of the Air Force	2,677	2,160	116	401	0	0	0	0	0	0
Materiel Command	2,677	2,160	116	401	0	0	0	0	0	0
Department of the Army	10,350	9,313	741	296	211	52	0	0	0	159
Department of the Navy	3,440	3,440	0	0	0	0	0	0	0	0
Department of Energy	109	0	109	0	0	0	0	0	0	0
National Nuclear Security Administration	109	0	109	0	0	0	0	0	0	0
Nonproliferation and Verification	109	0	109	0	0	0	0	0	0	0
Department of Health and Human Services	41,684	150	41,002	532	94,777	27	2,352	53	578	91,767
Administration for Children and Families	0	0	0	0	12,211	0	0	0	0	12,211
Agency for Healthcare Research and Quality	682	150	0	532	8,897	27	2,352	53	578	5,887
National Institutes of Health	41,002	0	41,002	0	69,816	0	0	0	0	69,816
Office of the Secretary	0	0	0	0	3,853	0	0	0	0	3,853
Office of the Assistant Secretary, Planning and Evaluation	0	0	0	0	3,853	0	0	0	0	3,853
Department of Homeland Security	270	109	64	97	401	0	57	277	54	13
Science and Technology Directorate	270	109	64	97	401	0	57	277	54	13

TABLE 78. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Mathematics and computer sciences				Social sciences					
	Computer		Mathematics	Mathematics and computer sciences, nec						
	Total	sciences			Total	Anthropology	Economics	Political science	Sociology	Social sciences, nec
Other agencies										
National Aeronautics and Space Administration	3,766	1,126	144	2,496	0	0	0	0	0	0
National Science Foundation	59,427	58,819	608	0	16,067	86	3,252	888	920	10,921

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 79. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field: FY 2006  
(Dollars in thousands)

Agency	Total	Aeronautical engineering	Astronautical engineering	Chemical engineering	Civil engineering	Electrical engineering	Mechanical engineering	Metallurgy and materials engineering	Engineering, nec
All agencies surveyed	866,733	76,445	31,475	41,331	23,130	105,769	22,142	65,411	501,030
Departments									
Department of Agriculture	9,786	0	0	220	64	36	45	0	9,421
Agricultural Research Service	409	0	0	205	64	36	45	0	59
Cooperative State Research, Education, and Extension Service	8,717	0	0	0	0	0	0	0	8,717
Forest Service	660	0	0	15	0	0	0	0	645
Department of Defense	336,482	21,403	2,928	4,115	4,602	76,621	20,753	45,353	160,707
Defense agencies and activities	90,374	5,146	0	2,324	1,265	28,356	5,151	16,030	32,102
Defense Advanced Research Projects Agency	84,129	5,146	0	1,059	0	27,091	3,886	16,030	30,917
Defense Threat Reduction Agency	1,185	0	0	0	0	0	0	0	1,185
Office of the Secretary of Defense <sup>a</sup>	5,060	0	0	1,265	1,265	1,265	1,265	0	0
Department of the Air Force	39,832	11,128	1,820	0	1,493	5,841	3,350	12,821	3,379
Materiel Command	39,832	11,128	1,820	0	1,493	5,841	3,350	12,821	3,379
Department of the Army	70,481	602	0	1,791	1,844	22,615	7,943	9,847	25,839
Department of the Navy	135,795	4,527	1,108	0	0	19,809	4,309	6,655	99,387
Department of Energy	132,914	0	0	24,914	4,287	13,604	25	764	89,320
Electricity Delivery and Energy Restoration	10,608	0	0	0	0	10,608	0	0	0
Energy Efficiency and Renewable Energy	21,595	0	0	0	4,287	2,846	25	28	14,409
Fossil Energy	24,914	0	0	24,914	0	0	0	0	0
National Nuclear Security Administration	68,866	0	0	0	0	150	0	736	67,980
Defense Programs	67,980	0	0	0	0	0	0	0	67,980
Nonproliferation and Verification	886	0	0	0	0	150	0	736	0
Nuclear Energy	6,931	0	0	0	0	0	0	0	6,931
Department of Health and Human Services	201,606	0	0	0	0	0	0	18,956	182,650
National Institutes of Health	201,606	0	0	0	0	0	0	18,956	182,650
Department of Homeland Security	1,551	21	0	18	98	13	21	26	1,354
Science and Technology Directorate	1,551	21	0	18	98	13	21	26	1,354
Other agencies									
National Aeronautics and Space Administration	86,817	55,021	28,547	24	2	761	509	177	1,776
National Science Foundation	97,577	0	0	12,040	14,077	14,734	789	135	55,802

nec = not elsewhere classified.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Seven agencies are required to report data for this section of survey: Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; National Aeronautics and Space Administration; and National Science Foundation. Applied research obligations of these seven agencies represented approximately 94% of total federal applied research obligations to universities and colleges in FY 2006. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2006  
(Dollars in thousands)

Region and country/economy	Total	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
All areas and organizations	796,680	435,736	2,904	325,976	9,802	13,234	3,973	5,055
Africa	44,375	1,450	0	42,627	75	0	223	0
Egypt	337	0	0	337	0	0	0	0
Ghana	2,038	0	0	2,038	0	0	0	0
Kenya	18,918	1,450	0	17,346	0	0	122	0
Malawi	563	0	0	563	0	0	0	0
Mali	113	0	0	113	0	0	0	0
Nigeria	329	0	0	263	0	0	66	0
Senegal	567	0	0	492	75	0	0	0
South Africa	19,513	0	0	19,478	0	0	35	0
Tanzania	904	0	0	904	0	0	0	0
Uganda	683	0	0	683	0	0	0	0
Zimbabwe	410	0	0	410	0	0	0	0
Asia	155,520	137,263	0	17,600	125	0	532	0
Azerbaijan	12	0	0	0	0	0	12	0
Bangladesh	58	0	0	53	0	0	5	0
Cambodia	1,049	448	0	601	0	0	0	0
China	5,383	0	0	5,063	1	0	319	0
Georgia	6	0	0	0	0	0	6	0
Hong Kong	1,051	250	0	801	0	0	0	0
India	1,131	130	0	1,001	0	0	0	0
Israel	131,835	126,297	0	5,413	103	0	22	0
Japan	8,882	8,122	0	739	21	0	0	0
Kazakhstan	7	0	0	0	0	0	7	0
Korea, South	313	263	0	50	0	0	0	0
Pakistan	164	0	0	164	0	0	0	0
Philippines	112	0	0	0	0	0	112	0
Singapore	1,947	1,523	0	424	0	0	0	0
Syria	37	0	0	0	0	0	37	0
Taiwan	115	105	0	0	0	0	10	0
Thailand	2,219	118	0	2,101	0	0	0	0
Turkey	9	7	0	0	0	0	2	0
Vietnam	1,190	0	0	1,190	0	0	0	0
Europe	309,732	130,756	2,138	157,372	7,117	6,584	1,621	4,144
Austria	4,584	148	0	3,484	0	947	0	5
Belgium	3,627	2,527	0	1,095	0	0	5	0
Bosnia and Herzegovina	63	63	0	0	0	0	0	0
Bulgaria	232	0	0	53	0	0	0	179
Croatia	155	150	0	0	0	0	5	0
Czech Republic	165	60	0	105	0	0	0	0
Denmark	18,073	479	299	16,595	0	700	0	0
Estonia	53	0	0	53	0	0	0	0
Finland	4,976	180	0	4,788	8	0	0	0
France	8,705	671	0	3,244	1,012	3,019	270	489
Germany	19,321	15,989	0	1,216	242	1,465	268	141
Greece	196	64	0	122	10	0	0	0
Hungary	205	100	0	105	0	0	0	0
Iceland	12,478	0	0	12,478	0	0	0	0
Ireland	352	0	0	351	1	0	0	0
Italy	12,868	905	20	9,158	2,558	0	227	0
Lithuania	14	0	0	0	0	0	14	0
Netherlands	14,290	6,108	23	8,140	0	6	0	13
Norway	19,018	17,406	0	0	644	0	0	968
Poland	164	110	0	53	1	0	0	0
Portugal	25	0	0	0	0	0	25	0

TABLE 80. Federal obligations for research and development to foreign performers, by region, country/economy, and agency: FY 2006  
(Dollars in thousands)

Region and country/economy	Total	DOD	DOE	HHS	NASA	NSF	USDA	Other <sup>a</sup>
Russia	1,018	79	0	552	0	0	31	356
Spain	1,204	40	0	1,164	0	0	0	0
Sweden	17,289	11,028	0	6,232	0	28	0	1
Switzerland	10,409	568	56	7,449	57	279	20	1,980
United Kingdom	157,065	70,898	1,740	80,935	2,584	140	756	12
Other	3,183	3,183	0	0	0	0	0	0
North America	241,945	163,342	313	70,851	1,991	4,152	565	731
Bahamas, The	27	27	0	0	0	0	0	0
Barbados	318	318	0	0	0	0	0	0
Bermuda	2,694	0	0	0	0	2,694	0	0
Canada	233,503	162,939	313	66,052	1,860	1,458	150	731
Costa Rica	2,758	0	0	2,493	46	0	219	0
Haiti	998	0	0	998	0	0	0	0
Jamaica	300	0	0	300	0	0	0	0
Mexico	1,254	58	0	1,008	2	0	186	0
Trinidad and Tobago	10	0	0	0	0	0	10	0
Other	83	0	0	0	83	0	0	0
Oceania	35,900	2,281	453	31,994	240	53	749	130
Australia	34,883	2,281	453	31,073	240	20	686	130
New Zealand	931	0	0	868	0	0	63	0
Papua New Guinea	53	0	0	53	0	0	0	0
Other	33	0	0	0	0	33	0	0
South America	8,974	410	0	5,532	254	2,445	283	50
Argentina	654	5	0	649	0	0	0	0
Brazil	4,683	260	0	1,694	124	2,445	110	50
Chile	499	60	0	331	0	0	108	0
Ecuador	2	0	0	0	0	0	2	0
Paraguay	20	0	0	0	0	0	20	0
Peru	2,755	0	0	2,582	130	0	43	0
Uruguay	296	20	0	276	0	0	0	0
Other	65	65	0	0	0	0	0	0
International organizations	234	234	0	0	0	0	0	0

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

<sup>a</sup> Includes data for Departments of Commerce, the Interior, and Transportation; Environmental Protection Agency; and Nuclear Regulatory Commission.

NOTE: Data for only those countries that had obligations in variables represented by this table appear in table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2006  
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	EPA	HHS	NASA	NSF	USDA
All areas and organizations	211,219	8	23,232	2,022	379	169,708	2,478	11,555	1,837
Africa	13,513	0	0	0	0	13,410	2	0	101
Egypt	190	0	0	0	0	190	0	0	0
Ghana	1,148	0	0	0	0	1,148	0	0	0
Kenya	96	0	0	0	0	59	0	0	37
Malawi	182	0	0	0	0	182	0	0	0
Mali	30	0	0	0	0	30	0	0	0
Nigeria	180	0	0	0	0	148	0	0	32
Senegal	279	0	0	0	0	277	2	0	0
South Africa	10,864	0	0	0	0	10,832	0	0	32
Tanzania	14	0	0	0	0	14	0	0	0
Uganda	299	0	0	0	0	299	0	0	0
Zimbabwe	231	0	0	0	0	231	0	0	0
Asia	16,398	0	7,392	0	0	8,693	84	0	229
Azerbaijan	6	0	0	0	0	0	0	0	6
Bangladesh	33	0	0	0	0	30	0	0	3
Cambodia	339	0	0	0	0	339	0	0	0
China	3,006	0	0	0	0	2,854	0	0	152
Hong Kong	268	0	0	0	0	268	0	0	0
India	594	0	30	0	0	564	0	0	0
Israel	3,386	0	257	0	0	3,051	67	0	11
Japan	6,390	0	5,957	0	0	416	17	0	0
Kazakhstan	3	0	0	0	0	0	0	0	3
Korea, South	181	0	153	0	0	28	0	0	0
Pakistan	92	0	0	0	0	92	0	0	0
Philippines	32	0	0	0	0	0	0	0	32
Singapore	1,122	0	883	0	0	239	0	0	0
Syria	18	0	0	0	0	0	0	0	18
Taiwan	108	0	105	0	0	0	0	0	3
Thailand	691	0	0	0	0	691	0	0	0
Turkey	8	0	7	0	0	0	0	0	1
Vietnam	121	0	0	0	0	121	0	0	0
Europe	111,387	8	14,149	1,256	363	88,123	1,808	4,905	775
Austria	2,066	5	98	0	0	1,963	0	0	0
Belgium	704	0	82	0	0	617	0	0	5
Bosnia and Herzegovina	63	0	63	0	0	0	0	0	0
Bulgaria	60	0	0	0	30	30	0	0	0
Czech Republic	119	0	60	0	0	59	0	0	0
Denmark	9,998	0	346	299	0	9,353	0	0	0
Estonia	30	0	0	0	0	30	0	0	0
Finland	2,699	0	0	0	0	2,699	0	0	0
France	5,812	0	371	0	0	1,828	461	3,019	133
Germany	2,974	0	621	0	0	685	77	1,433	158
Greece	137	0	64	0	0	68	5	0	0
Hungary	159	0	100	0	0	59	0	0	0
Iceland	7,032	0	0	0	0	7,032	0	0	0
Ireland	198	0	0	0	0	198	0	0	0
Italy	6,731	0	685	20	0	5,161	766	0	99
Lithuania	7	0	0	0	0	0	0	0	7
Netherlands	5,536	0	1,374	23	0	4,133	0	6	0
Norway	281	0	260	0	0	0	21	0	0
Poland	100	0	70	0	0	30	0	0	0
Portugal	12	0	0	0	0	0	0	0	12
Russia	403	0	79	0	0	311	0	0	13
Spain	696	0	40	0	0	656	0	0	0



TABLE 81. Federal obligations for basic research to foreign performers, by region, country/economy, and agency: FY 2006  
(Dollars in thousands)

Region and country/economy	Total	DOC	DOD	DOE	EPA	HHS	NASA	NSF	USDA
Sweden	3,699	1	158	0	0	3,512	0	28	0
Switzerland	4,962	0	72	56	333	4,198	14	279	10
United Kingdom	55,124	2	7,821	858	0	45,501	464	140	338
Other	1,785	0	1,785	0	0	0	0	0	0
North America	44,679	0	926	313	8	38,555	449	4,152	276
Bahamas, The	27	0	27	0	0	0	0	0	0
Barbados	213	0	213	0	0	0	0	0	0
Bermuda	2,694	0	0	0	0	0	0	2,694	0
Canada	38,751	0	628	313	8	35,851	405	1,458	88
Costa Rica	1,491	0	0	0	0	1,405	4	0	82
Haiti	562	0	0	0	0	562	0	0	0
Jamaica	169	0	0	0	0	169	0	0	0
Mexico	727	0	58	0	0	568	0	0	101
Trinidad and Tobago	5	0	0	0	0	0	0	0	5
Other	40	0	0	0	0	0	40	0	0
Oceania	18,990	0	366	453	0	17,809	16	53	293
Australia	18,661	0	366	453	0	17,513	16	20	293
New Zealand	266	0	0	0	0	266	0	0	0
Papua New Guinea	30	0	0	0	0	30	0	0	0
Other	33	0	0	0	0	0	0	33	0
South America	6,252	0	399	0	8	3,118	119	2,445	163
Argentina	371	0	5	0	0	366	0	0	0
Brazil	3,793	0	250	0	8	955	56	2,445	79
Chile	300	0	60	0	0	187	0	0	53
Paraguay	10	0	0	0	0	0	0	0	10
Peru	1,539	0	0	0	0	1,455	63	0	21
Uruguay	175	0	20	0	0	155	0	0	0
Other	64	0	64	0	0	0	0	0	0

DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

NOTE: Data for only those countries that had obligations in variables represented by this table appear in table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2006

(Dollars in thousands)

State/location	Total	R&D	R&D plant
All locations	109,838,422	107,745,367	2,093,055
Alabama	2,168,070	2,161,708	6,362
Alaska	213,802	209,038	4,764
Arizona	2,059,883	2,056,284	3,599
Arkansas	157,857	156,164	1,693
California	21,584,217	21,156,522	427,695
Colorado	2,127,390	2,029,641	97,749
Connecticut	1,596,289	1,591,960	4,329
Delaware	108,677	108,657	20
District of Columbia	4,197,700	4,091,852	105,848
Florida	2,320,668	2,319,079	1,589
Georgia	1,380,122	1,251,445	128,677
Hawaii	345,650	340,094	5,556
Idaho	304,094	297,094	7,000
Illinois	2,060,130	1,975,552	84,578
Indiana	562,582	559,860	2,722
Iowa	559,444	497,173	62,271
Kansas	212,416	212,152	264
Kentucky	246,374	239,141	7,233
Louisiana	357,829	321,096	36,733
Maine	230,225	226,468	3,757
Maryland	12,750,031	12,499,496	250,535
Massachusetts	6,153,753	6,104,611	49,142
Michigan	1,684,421	1,680,908	3,513
Minnesota	1,238,105	1,237,266	839
Mississippi	564,492	544,029	20,463
Missouri	1,231,609	1,225,269	6,340
Montana	156,417	149,876	6,541
Nebraska	160,692	159,986	706
Nevada	463,304	422,449	40,855
New Hampshire	375,780	371,808	3,972
New Jersey	2,167,597	2,110,673	56,924
New Mexico	3,210,891	3,100,110	110,781
New York	5,326,012	5,225,241	100,771
North Carolina	1,769,909	1,765,859	4,050
North Dakota	112,365	112,067	298
Ohio	2,437,138	2,420,136	17,002
Oklahoma	263,233	262,336	897
Oregon	508,147	505,321	2,826
Pennsylvania	3,244,926	3,227,533	17,393
Rhode Island	616,916	615,902	1,014
South Carolina	374,036	370,562	3,474
South Dakota	76,388	75,926	462
Tennessee	1,567,432	1,455,622	111,810
Texas	5,305,891	5,263,822	42,069
Utah	738,348	737,850	498
Vermont	105,807	105,544	263
Virginia	9,011,418	8,882,441	128,977
Washington	4,069,279	4,039,292	29,987
West Virginia	322,087	301,416	20,671
Wisconsin	700,742	635,645	65,097
Wyoming	36,532	36,169	363

TABLE 82. Federal obligations for research and development and for R&D plant for selected agencies, by state and other locations: FY 2006

(Dollars in thousands)

State/location	Total	R&D	R&D plant
Outlying areas	161,599	161,183	416
Puerto Rico	99,206	98,790	416
Other areas	62,393	62,393	0
Offices abroad	139,706	138,039	1,667

NOTES: Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration (NASA); and National Science Foundation. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2006. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2006  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
All locations	107,745,367	24,799,486	44,032,406	1,407,700	23,981,639	5,429,321	5,704,200	1,797,539	593,076
Alabama	2,161,708	831,157	943,212	0	357,247	0	27,559	0	2,533
Alaska	209,038	56,939	63,900	0	67,235	0	16,324	0	4,640
Arizona	2,056,284	317,106	1,350,422	0	285,763	63,584	30,179	0	9,230
Arkansas	156,164	42,984	12,178	0	94,191	0	5,575	0	1,236
California	21,156,522	1,561,609	12,052,376	0	3,244,675	3,008,452	1,029,148	216,938	43,324
Colorado	2,029,641	277,517	1,028,834	0	475,471	106,960	41,107	86,925	12,827
Connecticut	1,591,960	20,537	1,039,279	0	473,527	0	48,280	0	10,337
Delaware	108,657	3,157	16,716	0	72,619	0	15,762	0	403
District of Columbia	4,091,852	2,881,279	719,831	0	177,281	0	301,081	350	12,030
Florida	2,319,079	599,097	1,098,371	0	551,850	0	63,445	0	6,316
Georgia	1,251,445	331,682	386,912	0	507,805	0	18,729	0	6,317
Hawaii	340,094	85,636	75,387	0	159,954	0	18,033	0	1,084
Idaho	297,094	25,770	66,220	155,130	46,934	0	1,783	0	1,257
Illinois	1,975,552	107,550	277,823	0	920,899	572,946	91,055	0	5,279
Indiana	559,860	97,123	115,542	0	343,279	0	2,805	0	1,111
Iowa	497,173	49,250	153,424	0	263,033	22,606	6,021	0	2,839
Kansas	212,152	17,787	53,747	0	135,766	0	2,475	0	2,377
Kentucky	239,141	18,127	32,911	0	184,855	0	2,309	0	939
Louisiana	321,096	51,916	39,884	0	219,548	0	5,956	0	3,792
Maine	226,468	8,306	119,730	0	27,478	0	68,462	0	2,492
Maryland	12,499,496	7,965,233	2,389,325	306,973	1,453,559	0	235,804	0	148,602
Massachusetts	6,104,611	990,289	1,979,828	0	1,396,296	318,670	1,239,655	153,100	26,773
Michigan	1,680,908	196,552	708,169	0	726,966	0	40,780	0	8,441
Minnesota	1,237,266	52,182	659,534	0	326,009	0	193,583	0	5,958
Mississippi	544,029	145,880	244,838	0	140,549	0	10,532	0	2,230
Missouri	1,225,269	39,853	599,380	0	561,249	0	22,712	0	2,075
Montana	149,876	22,091	32,897	0	86,987	0	6,720	0	1,181
Nebraska	159,986	29,491	11,514	0	114,152	0	4,066	0	763
Nevada	422,449	58,137	271,457	0	87,767	0	4,095	0	993
New Hampshire	371,808	29,576	198,559	0	138,485	0	1,832	0	3,356
New Jersey	2,110,673	677,409	955,110	0	385,237	52,843	33,354	0	6,720
New Mexico	3,100,110	527,882	349,934	929,868	179,811	1,053,774	43,173	0	15,668
New York	5,225,241	144,752	2,360,132	0	1,947,401	0	381,042	273,280	118,634
North Carolina	1,765,859	402,140	190,240	0	1,058,911	0	107,863	0	6,705
North Dakota	112,067	27,370	2,361	0	74,623	0	7,706	0	7
Ohio	2,420,136	749,536	791,722	0	682,061	0	191,778	0	5,039
Oklahoma	262,336	78,576	38,788	0	106,797	0	36,754	0	1,421
Oregon	505,321	82,451	62,424	0	313,931	0	42,265	0	4,250
Pennsylvania	3,227,533	203,436	1,064,225	0	1,521,089	27,443	399,592	0	11,748
Rhode Island	615,902	374,993	66,300	0	106,099	0	65,030	0	3,480
South Carolina	370,562	80,280	69,770	15,729	154,006	0	45,514	0	5,263
South Dakota	75,926	17,185	10,974	0	36,071	0	3,953	0	7,743
Tennessee	1,455,622	84,441	219,665	0	422,179	54,445	79,098	587,367	8,427
Texas	5,263,822	254,335	3,476,600	0	1,344,668	0	177,831	148	10,240
Utah	737,850	254,505	257,796	0	221,675	0	3,214	0	660
Vermont	105,544	7,903	15,462	0	78,544	0	1,930	0	1,705
Virginia	8,882,441	3,510,428	4,407,322	0	412,555	135,458	152,159	224,612	39,907
Washington	4,039,292	179,977	2,618,631	0	642,540	0	336,227	254,819	7,098
West Virginia	301,416	109,640	110,161	0	65,325	0	12,528	0	3,762
Wisconsin	635,645	45,131	89,898	0	476,407	0	22,221	0	1,988
Wyoming	36,169	7,125	3,997	0	23,338	0	1,410	0	299

TABLE 83. Federal obligations for research and development for selected agencies, by state and other locations and performer: FY 2006  
(Dollars in thousands)

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Outlying areas	161,183	55,454	1,405	0	86,916	12,140	3,691	0	1,577
Puerto Rico	98,790	7,327	988	0	75,897	12,140	1,644	0	794
Other areas	62,393	48,127	417	0	11,019	0	2,047	0	783
Offices abroad	138,039	10,724	127,289	0	26	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2006. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 84. Percentage distribution of federal obligations for research and development for selected agencies, by performer, by state and other locations: FY 2006

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
All locations	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Alabama	2.0	3.4	2.1	0.0	1.5	0.0	0.5	0.0	0.4
Alaska	0.2	0.2	0.1	0.0	0.3	0.0	0.3	0.0	0.8
Arizona	1.9	1.3	3.1	0.0	1.2	1.2	0.5	0.0	1.6
Arkansas	0.1	0.2	0.0	0.0	0.4	0.0	0.1	0.0	0.2
California	19.6	6.3	27.4	0.0	13.5	55.4	18.0	12.1	7.3
Colorado	1.9	1.1	2.3	0.0	2.0	2.0	0.7	4.8	2.2
Connecticut	1.5	0.1	2.4	0.0	2.0	0.0	0.8	0.0	1.7
Delaware	0.1	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.1
District of Columbia	3.8	11.6	1.6	0.0	0.7	0.0	5.3	0.0	2.0
Florida	2.2	2.4	2.5	0.0	2.3	0.0	1.1	0.0	1.1
Georgia	1.2	1.3	0.9	0.0	2.1	0.0	0.3	0.0	1.1
Hawaii	0.3	0.3	0.2	0.0	0.7	0.0	0.3	0.0	0.2
Idaho	0.3	0.1	0.2	11.0	0.2	0.0	0.0	0.0	0.2
Illinois	1.8	0.4	0.6	0.0	3.8	10.6	1.6	0.0	0.9
Indiana	0.5	0.4	0.3	0.0	1.4	0.0	0.0	0.0	0.2
Iowa	0.5	0.2	0.3	0.0	1.1	0.4	0.1	0.0	0.5
Kansas	0.2	0.1	0.1	0.0	0.6	0.0	0.0	0.0	0.4
Kentucky	0.2	0.1	0.1	0.0	0.8	0.0	0.0	0.0	0.2
Louisiana	0.3	0.2	0.1	0.0	0.9	0.0	0.1	0.0	0.6
Maine	0.2	0.0	0.3	0.0	0.1	0.0	1.2	0.0	0.4
Maryland	11.6	32.1	5.4	21.8	6.1	0.0	4.1	0.0	25.1
Massachusetts	5.7	4.0	4.5	0.0	5.8	5.9	21.7	8.5	4.5
Michigan	1.6	0.8	1.6	0.0	3.0	0.0	0.7	0.0	1.4
Minnesota	1.1	0.2	1.5	0.0	1.4	0.0	3.4	0.0	1.0
Mississippi	0.5	0.6	0.6	0.0	0.6	0.0	0.2	0.0	0.4
Missouri	1.1	0.2	1.4	0.0	2.3	0.0	0.4	0.0	0.3
Montana	0.1	0.1	0.1	0.0	0.4	0.0	0.1	0.0	0.2
Nebraska	0.1	0.1	0.0	0.0	0.5	0.0	0.1	0.0	0.1
Nevada	0.4	0.2	0.6	0.0	0.4	0.0	0.1	0.0	0.2
New Hampshire	0.3	0.1	0.5	0.0	0.6	0.0	0.0	0.0	0.6
New Jersey	2.0	2.7	2.2	0.0	1.6	1.0	0.6	0.0	1.1
New Mexico	2.9	2.1	0.8	66.1	0.7	19.4	0.8	0.0	2.6
New York	4.8	0.6	5.4	0.0	8.1	0.0	6.7	15.2	20.0
North Carolina	1.6	1.6	0.4	0.0	4.4	0.0	1.9	0.0	1.1
North Dakota	0.1	0.1	0.0	0.0	0.3	0.0	0.1	0.0	0.0
Ohio	2.2	3.0	1.8	0.0	2.8	0.0	3.4	0.0	0.8
Oklahoma	0.2	0.3	0.1	0.0	0.4	0.0	0.6	0.0	0.2
Oregon	0.5	0.3	0.1	0.0	1.3	0.0	0.7	0.0	0.7
Pennsylvania	3.0	0.8	2.4	0.0	6.3	0.5	7.0	0.0	2.0
Rhode Island	0.6	1.5	0.2	0.0	0.4	0.0	1.1	0.0	0.6
South Carolina	0.3	0.3	0.2	1.1	0.6	0.0	0.8	0.0	0.9
South Dakota	0.1	0.1	0.0	0.0	0.2	0.0	0.1	0.0	1.3
Tennessee	1.4	0.3	0.5	0.0	1.8	1.0	1.4	32.7	1.4
Texas	4.9	1.0	7.9	0.0	5.6	0.0	3.1	0.0	1.7
Utah	0.7	1.0	0.6	0.0	0.9	0.0	0.1	0.0	0.1
Vermont	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3
Virginia	8.2	14.2	10.0	0.0	1.7	2.5	2.7	12.5	6.7
Washington	3.7	0.7	5.9	0.0	2.7	0.0	5.9	14.2	1.2
West Virginia	0.3	0.4	0.3	0.0	0.3	0.0	0.2	0.0	0.6
Wisconsin	0.6	0.2	0.2	0.0	2.0	0.0	0.4	0.0	0.3
Wyoming	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1

TABLE 84. Percentage distribution of federal obligations for research and development for selected agencies, by performer, by state and other locations: FY 2006

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Outlying areas	0.1	0.2	0.0	0.0	0.4	0.2	0.1	0.0	0.3
Puerto Rico	0.1	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.1
Other areas	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Offices abroad	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2006. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 85. Percentage distribution of federal obligations for research and development for selected agencies, by state and other locations, by performer: FY 2006

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
All locations	100.0	23.0	40.9	1.3	22.3	5.0	5.3	1.7	0.6
Alabama	100.0	38.4	43.6	0.0	16.5	0.0	1.3	0.0	0.1
Alaska	100.0	27.2	30.6	0.0	32.2	0.0	7.8	0.0	2.2
Arizona	100.0	15.4	65.7	0.0	13.9	3.1	1.5	0.0	0.4
Arkansas	100.0	27.5	7.8	0.0	60.3	0.0	3.6	0.0	0.8
California	100.0	7.4	57.0	0.0	15.3	14.2	4.9	1.0	0.2
Colorado	100.0	13.7	50.7	0.0	23.4	5.3	2.0	4.3	0.6
Connecticut	100.0	1.3	65.3	0.0	29.7	0.0	3.0	0.0	0.6
Delaware	100.0	2.9	15.4	0.0	66.8	0.0	14.5	0.0	0.4
District of Columbia	100.0	70.4	17.6	0.0	4.3	0.0	7.4	0.0	0.3
Florida	100.0	25.8	47.4	0.0	23.8	0.0	2.7	0.0	0.3
Georgia	100.0	26.5	30.9	0.0	40.6	0.0	1.5	0.0	0.5
Hawaii	100.0	25.2	22.2	0.0	47.0	0.0	5.3	0.0	0.3
Idaho	100.0	8.7	22.3	52.2	15.8	0.0	0.6	0.0	0.4
Illinois	100.0	5.4	14.1	0.0	46.6	29.0	4.6	0.0	0.3
Indiana	100.0	17.3	20.6	0.0	61.3	0.0	0.5	0.0	0.2
Iowa	100.0	9.9	30.9	0.0	52.9	4.5	1.2	0.0	0.6
Kansas	100.0	8.4	25.3	0.0	64.0	0.0	1.2	0.0	1.1
Kentucky	100.0	7.6	13.8	0.0	77.3	0.0	1.0	0.0	0.4
Louisiana	100.0	16.2	12.4	0.0	68.4	0.0	1.9	0.0	1.2
Maine	100.0	3.7	52.9	0.0	12.1	0.0	30.2	0.0	1.1
Maryland	100.0	63.7	19.1	2.5	11.6	0.0	1.9	0.0	1.2
Massachusetts	100.0	16.2	32.4	0.0	22.9	5.2	20.3	2.5	0.4
Michigan	100.0	11.7	42.1	0.0	43.2	0.0	2.4	0.0	0.5
Minnesota	100.0	4.2	53.3	0.0	26.3	0.0	15.6	0.0	0.5
Mississippi	100.0	26.8	45.0	0.0	25.8	0.0	1.9	0.0	0.4
Missouri	100.0	3.3	48.9	0.0	45.8	0.0	1.9	0.0	0.2
Montana	100.0	14.7	21.9	0.0	58.0	0.0	4.5	0.0	0.8
Nebraska	100.0	18.4	7.2	0.0	71.4	0.0	2.5	0.0	0.5
Nevada	100.0	13.8	64.3	0.0	20.8	0.0	1.0	0.0	0.2
New Hampshire	100.0	8.0	53.4	0.0	37.2	0.0	0.5	0.0	0.9
New Jersey	100.0	32.1	45.3	0.0	18.3	2.5	1.6	0.0	0.3
New Mexico	100.0	17.0	11.3	30.0	5.8	34.0	1.4	0.0	0.5
New York	100.0	2.8	45.2	0.0	37.3	0.0	7.3	5.2	2.3
North Carolina	100.0	22.8	10.8	0.0	60.0	0.0	6.1	0.0	0.4
North Dakota	100.0	24.4	2.1	0.0	66.6	0.0	6.9	0.0	0.0
Ohio	100.0	31.0	32.7	0.0	28.2	0.0	7.9	0.0	0.2
Oklahoma	100.0	30.0	14.8	0.0	40.7	0.0	14.0	0.0	0.5
Oregon	100.0	16.3	12.4	0.0	62.1	0.0	8.4	0.0	0.8
Pennsylvania	100.0	6.3	33.0	0.0	47.1	0.9	12.4	0.0	0.4
Rhode Island	100.0	60.9	10.8	0.0	17.2	0.0	10.6	0.0	0.6
South Carolina	100.0	21.7	18.8	4.2	41.6	0.0	12.3	0.0	1.4
South Dakota	100.0	22.6	14.5	0.0	47.5	0.0	5.2	0.0	10.2
Tennessee	100.0	5.8	15.1	0.0	29.0	3.7	5.4	40.4	0.6
Texas	100.0	4.8	66.0	0.0	25.5	0.0	3.4	0.0	0.2
Utah	100.0	34.5	34.9	0.0	30.0	0.0	0.4	0.0	0.1
Vermont	100.0	7.5	14.6	0.0	74.4	0.0	1.8	0.0	1.6
Virginia	100.0	39.5	49.6	0.0	4.6	1.5	1.7	2.5	0.4
Washington	100.0	4.5	64.8	0.0	15.9	0.0	8.3	6.3	0.2
West Virginia	100.0	36.4	36.5	0.0	21.7	0.0	4.2	0.0	1.2
Wisconsin	100.0	7.1	14.1	0.0	74.9	0.0	3.5	0.0	0.3
Wyoming	100.0	19.7	11.1	0.0	64.5	0.0	3.9	0.0	0.8



TABLE 85. Percentage distribution of federal obligations for research and development for selected agencies, by state and other locations, by performer: FY 2006

State/location	Total R&D	Intramural <sup>a</sup>	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Outlying areas	100.0	34.4	0.9	0.0	53.9	7.5	2.3	0.0	1.0
Puerto Rico	100.0	7.4	1.0	0.0	76.8	12.3	1.7	0.0	0.8
Other areas	100.0	77.1	0.7	0.0	17.7	0.0	3.3	0.0	1.3
Offices abroad	100.0	7.8	92.2	0.0	0.0	0.0	0.0	0.0	0.0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2006. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 86. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2006  
(Dollars in thousands)

State/location	Total		Extramural						
	R&D Plant	Intramural <sup>a</sup>	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
All locations	2,093,055	633,582	263,451	82,697	262,466	519,296	127,327	201,638	2,598
Alabama	6,362	1,915	2	0	4,225	0	0	0	220
Alaska	4,764	50	4,684	0	30	0	0	0	0
Arizona	3,599	1,947	82	0	1,532	0	0	0	38
Arkansas	1,693	1,135	0	0	558	0	0	0	0
California	427,695	31,807	37,196	0	23,444	333,891	658	92	607
Colorado	97,749	35,619	1,810	0	3,823	8,812	28,739	18,910	36
Connecticut	4,329	90	1,586	0	2,360	0	293	0	0
Delaware	20	17	3	0	0	0	0	0	0
District of Columbia	105,848	15,139	5,361	0	1,399	0	83,852	0	97
Florida	1,589	82	477	0	894	0	0	0	136
Georgia	128,677	127,847	4	0	802	0	0	0	24
Hawaii	5,556	3,589	0	0	9	0	1,958	0	0
Idaho	7,000	1,177	3,250	1,350	1,223	0	0	0	0
Illinois	84,578	6,247	5,954	0	4,410	67,896	0	0	71
Indiana	2,722	0	42	0	2,650	0	0	0	30
Iowa	62,271	58,212	0	0	1,330	2,729	0	0	0
Kansas	264	0	0	0	264	0	0	0	0
Kentucky	7,233	6,930	0	0	303	0	0	0	0
Louisiana	36,733	29,514	29	0	7,190	0	0	0	0
Maine	3,757	2,614	0	0	1,000	0	143	0	0
Maryland	250,535	225,011	7,216	0	17,725	0	583	0	0
Massachusetts	49,142	687	5,021	0	37,985	48	5,210	30	161
Michigan	3,513	57	0	0	3,247	0	0	0	209
Minnesota	839	335	0	0	504	0	0	0	0
Mississippi	20,463	11,916	7,187	0	1,360	0	0	0	0
Missouri	6,340	3,688	0	0	2,488	0	112	0	52
Montana	6,541	6,541	0	0	0	0	0	0	0
Nebraska	706	0	0	0	706	0	0	0	0
Nevada	40,855	1,821	38,594	0	415	0	0	0	25
New Hampshire	3,972	906	2,662	0	404	0	0	0	0
New Jersey	56,924	10,752	17,503	0	8,160	20,458	0	0	51
New Mexico	110,781	295	3,967	81,224	217	25,078	0	0	0
New York	100,771	7,847	19,606	0	12,302	0	1,649	59,163	204
North Carolina	4,050	843	102	0	3,029	0	76	0	0
North Dakota	298	0	0	0	298	0	0	0	0
Ohio	17,002	6,261	8,329	0	1,819	0	574	0	19
Oklahoma	897	0	208	0	689	0	0	0	0
Oregon	2,826	204	1,000	0	1,175	0	447	0	0
Pennsylvania	17,393	50	13,260	0	3,968	0	0	0	115
Rhode Island	1,014	0	357	0	657	0	0	0	0
South Carolina	3,474	2,288	0	123	863	0	200	0	0
South Dakota	462	0	0	0	462	0	0	0	0
Tennessee	111,810	2,649	2	0	2,318	4,155	700	101,986	0
Texas	42,069	183	468	0	41,011	0	0	0	407
Utah	498	482	0	0	16	0	0	0	0
Vermont	263	263	0	0	0	0	0	0	0
Virginia	128,977	8,245	58,276	0	2,801	56,229	2,133	1,293	0
Washington	29,987	4,555	166	0	5,066	0	0	20,164	36
West Virginia	20,671	3,304	17,367	0	0	0	0	0	0
Wisconsin	65,097	10,394	13	0	54,630	0	0	0	60
Wyoming	363	0	0	0	363	0	0	0	0

TABLE 86. Federal obligations for R&D plant for selected agencies, by state and other locations and performer: FY 2006  
(Dollars in thousands)

State/location	Total		Extramural						
	R&D Plant	Intramural <sup>a</sup>	Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Outlying areas	416	74	0	0	342	0	0	0	0
Puerto Rico	416	74	0	0	342	0	0	0	0
Offices abroad	1,667	0	1,667	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

NOTES: Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented 99% of total federal R&D plant obligations in FY 2006. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 87. Federal obligations for research and development, by state and other locations and selected agency: FY 2006

(Dollars in thousands)

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	107,745,367	1,725,414	941,212	53,850,781	7,559,073	602,783	818,950	619,279	28,439,622	7,201,217	3,777,352	2,209,684
Alabama	2,161,708	6,051	7,609	1,658,778	10,530	2,015	3,786	1,350	282,592	138,564	20,407	30,026
Alaska	209,038	1,002	24,507	86,238	7,790	24,987	1,690	1,636	13,361	8,526	23,957	15,344
Arizona	2,056,284	25,609	2,401	1,581,477	9,767	8,647	2,452	1,060	166,719	94,046	135,320	28,786
Arkansas	156,164	0	0	12,361	2,235	1,616	293	225	85,476	4,205	9,527	40,226
California	21,156,522	312,165	32,208	12,341,239	1,546,689	83,442	18,527	12,734	3,292,052	2,790,251	599,814	127,401
Colorado	2,029,641	1,213	132,688	834,878	116,059	85,652	14,813	2,043	330,442	280,968	194,571	36,314
Connecticut	1,591,960	34,445	6,364	1,013,591	22,779	1,307	1,731	901	442,987	14,530	41,691	11,634
Delaware	108,657	224	1,617	28,669	12,070	799	1,402	140	30,198	5,769	21,595	6,174
District of Columbia	4,091,852	172,627	2,108	1,262,361	324,828	2,385	290,247	99,604	242,368	1,255,194	129,458	310,672
Florida	2,319,079	4,208	38,230	1,644,159	13,882	25,391	6,806	14,186	343,167	58,813	108,610	61,627
Georgia	1,251,445	98,578	1,500	420,835	35,145	5,468	7,432	7,892	510,567	22,757	68,912	72,359
Hawaii	340,094	0	13,144	174,233	5,462	7,809	0	0	60,699	15,401	32,739	30,607
Idaho	297,094	4,037	1,529	29,563	203,105	4,498	450	0	12,580	8,290	7,897	25,145
Illinois	1,975,552	88,061	4,121	286,512	605,010	1,602	9,217	1,370	727,047	19,583	170,176	62,853
Indiana	559,860	1,945	1,653	208,207	24,501	2,292	2,790	582	211,463	16,952	72,988	16,487
Iowa	497,173	0	1,575	157,787	32,674	2,224	4,968	297	192,484	7,289	30,662	67,213
Kansas	212,152	11	11	56,470	7,517	2,373	10,097	225	82,409	3,191	30,125	19,723
Kentucky	239,141	2,366	0	47,679	4,831	1,098	370	221	143,992	4,996	17,279	16,309
Louisiana	321,096	2	1,042	32,523	5,103	17,508	3,342	221	168,680	19,546	23,419	49,710
Maine	226,468	1,969	1,570	120,802	297	2,672	100	609	72,831	3,082	13,779	8,757
Maryland	12,499,496	184,429	399,687	3,650,960	28,061	15,557	38,077	3,942	7,202,157	720,471	91,126	165,029
Massachusetts	6,104,611	82,055	23,015	3,136,841	94,924	11,001	117,757	12,350	2,228,176	127,958	240,874	29,660
Michigan	1,680,908	4,102	12,979	868,833	38,442	6,510	27,906	5,830	547,047	23,025	119,022	27,212
Minnesota	1,237,266	5,260	730	648,352	11,656	2,932	1,390	19,283	433,836	12,559	55,830	45,438
Mississippi	544,029	102	17,048	341,246	5,820	5,118	1,348	67	49,189	21,485	10,521	92,085
Missouri	1,225,269	2,111	350	610,283	5,649	9,232	8,240	0	483,532	15,350	52,862	37,660
Montana	149,876	0	132	39,711	7,073	7,580	0	0	38,267	13,872	14,908	28,333
Nebraska	159,986	4	226	20,341	2,538	1,877	3,027	450	78,731	2,287	17,007	33,498
Nevada	422,449	24,106	977	52,405	272,263	2,843	2,008	19,340	23,194	9,376	12,387	3,550
New Hampshire	371,808	34,981	24,304	172,130	1,804	789	2,523	66	88,232	19,651	17,559	9,769
New Jersey	2,110,673	20,331	19,283	1,543,407	73,543	2,697	18,946	7,839	282,443	40,222	91,098	10,864
New Mexico	3,100,110	107,091	3,574	970,319	1,801,998	3,792	13,427	3,046	116,480	40,111	26,141	14,131
New York	5,225,241	23,997	18,803	2,083,088	709,691	4,709	7,058	5,116	1,937,958	98,789	294,556	41,476
North Carolina	1,765,859	11,860	13,847	167,316	25,748	3,498	6,335	195,028	1,193,081	10,960	88,525	49,661
North Dakota	112,067	2	632	16,283	20,327	3,307	870	1,921	14,908	12,391	4,858	36,568
Ohio	2,420,136	22,056	3,013	1,318,302	37,688	2,734	22,197	116,350	694,646	103,963	70,192	28,995
Oklahoma	262,336	1,748	18,244	63,501	12,328	1,956	10,608	15,448	90,319	4,266	20,824	23,094
Oregon	505,321	75	7,613	38,986	18,695	10,873	773	24,518	287,342	9,256	50,726	56,464
Pennsylvania	3,227,533	3,853	5,430	1,132,344	389,050	3,505	6,900	1,739	1,425,668	34,358	169,333	55,353
Rhode Island	615,902	5,047	1,026	421,457	3,560	1,793	68	16,754	129,310	5,729	28,911	2,247
South Carolina	370,562	5,227	16,594	151,307	19,130	2,803	446	1,304	125,146	3,913	24,649	20,043

TABLE 87. Federal obligations for research and development, by state and other locations and selected agency: FY 2006

(Dollars in thousands)

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
South Dakota	75,926	0	180	16,196	1,087	12,569	1,174	1,114	20,597	8,308	5,202	9,499
Tennessee	1,455,622	156,527	2,123	123,530	507,853	2,836	7,164	834	414,940	189,360	26,475	23,980
Texas	5,263,822	11,211	11,932	3,585,927	42,865	10,845	7,307	2,166	1,099,154	266,714	123,318	102,383
Utah	737,850	621	1,019	428,593	11,305	3,494	330	0	152,232	73,140	34,340	32,776
Vermont	105,544	344	1,628	16,647	3,359	1,157	24	947	63,991	3,132	4,485	9,830
Virginia	8,882,441	199,206	7,826	7,244,316	96,542	152,747	121,465	8,815	427,544	477,318	130,319	16,343
Washington	4,039,292	63,607	45,743	2,654,826	190,446	7,782	5,135	7,416	882,355	35,218	97,616	49,148
West Virginia	301,416	0	2,822	70,795	102,396	5,645	2,358	380	44,013	31,626	6,792	34,589
Wisconsin	635,645	948	3,698	75,673	30,809	13,278	2,131	1,920	375,250	11,578	64,845	55,515
Wyoming	36,169	0	312	4,514	1,571	2,279	1,445	0	7,238	1,219	9,061	8,530
Outlying areas	161,183	0	2,545	49,099	578	1,260	0	0	70,532	1,659	20,064	15,446
Puerto Rico	98,790	0	743	1,799	578	708	0	0	64,005	1,659	19,157	10,141
Other areas	62,393	0	1,802	47,300	0	552	0	0	6,527	0	907	5,305
Offices abroad	138,039	0	0	134,891	0	0	0	0	0	0	0	3,148

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

NOTES: Only 11 agencies are required to report data for this section of survey. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2006. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 88. Percentage distribution of federal obligations for research and development, by selected agency, by state and other locations: FY 2006

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Alabama	2.0	0.4	0.8	3.1	0.1	0.3	0.5	0.2	1.0	1.9	0.5	1.4
Alaska	0.2	0.1	2.6	0.2	0.1	4.1	0.2	0.3	0.0	0.1	0.6	0.7
Arizona	1.9	1.5	0.3	2.9	0.1	1.4	0.3	0.2	0.6	1.3	3.6	1.3
Arkansas	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.1	0.3	1.8
California	19.6	18.1	3.4	22.9	20.5	13.8	2.3	2.1	11.6	38.7	15.9	5.8
Colorado	1.9	0.1	14.1	1.6	1.5	14.2	1.8	0.3	1.2	3.9	5.2	1.6
Connecticut	1.5	2.0	0.7	1.9	0.3	0.2	0.2	0.1	1.6	0.2	1.1	0.5
Delaware	0.1	0.0	0.2	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.6	0.3
District of Columbia	3.8	10.0	0.2	2.3	4.3	0.4	35.4	16.1	0.9	17.4	3.4	14.1
Florida	2.2	0.2	4.1	3.1	0.2	4.2	0.8	2.3	1.2	0.8	2.9	2.8
Georgia	1.2	5.7	0.2	0.8	0.5	0.9	0.9	1.3	1.8	0.3	1.8	3.3
Hawaii	0.3	0.0	1.4	0.3	0.1	1.3	0.0	0.0	0.2	0.2	0.9	1.4
Idaho	0.3	0.2	0.2	0.1	2.7	0.7	0.1	0.0	0.0	0.1	0.2	1.1
Illinois	1.8	5.1	0.4	0.5	8.0	0.3	1.1	0.2	2.6	0.3	4.5	2.8
Indiana	0.5	0.1	0.2	0.4	0.3	0.4	0.3	0.1	0.7	0.2	1.9	0.7
Iowa	0.5	0.0	0.2	0.3	0.4	0.4	0.6	0.0	0.7	0.1	0.8	3.0
Kansas	0.2	0.0	0.0	0.1	0.1	0.4	1.2	0.0	0.3	0.0	0.8	0.9
Kentucky	0.2	0.1	0.0	0.1	0.1	0.2	0.0	0.0	0.5	0.1	0.5	0.7
Louisiana	0.3	0.0	0.1	0.1	0.1	2.9	0.4	0.0	0.6	0.3	0.6	2.2
Maine	0.2	0.1	0.2	0.2	0.0	0.4	0.0	0.1	0.3	0.0	0.4	0.4
Maryland	11.6	10.7	42.5	6.8	0.4	2.6	4.6	0.6	25.3	10.0	2.4	7.5
Massachusetts	5.7	4.8	2.4	5.8	1.3	1.8	14.4	2.0	7.8	1.8	6.4	1.3
Michigan	1.6	0.2	1.4	1.6	0.5	1.1	3.4	0.9	1.9	0.3	3.2	1.2
Minnesota	1.1	0.3	0.1	1.2	0.2	0.5	0.2	3.1	1.5	0.2	1.5	2.1
Mississippi	0.5	0.0	1.8	0.6	0.1	0.8	0.2	0.0	0.2	0.3	0.3	4.2
Missouri	1.1	0.1	0.0	1.1	0.1	1.5	1.0	0.0	1.7	0.2	1.4	1.7
Montana	0.1	0.0	0.0	0.1	0.1	1.3	0.0	0.0	0.1	0.2	0.4	1.3
Nebraska	0.1	0.0	0.0	0.0	0.0	0.3	0.4	0.1	0.3	0.0	0.5	1.5
Nevada	0.4	1.4	0.1	0.1	3.6	0.5	0.2	3.1	0.1	0.1	0.3	0.2
New Hampshire	0.3	2.0	2.6	0.3	0.0	0.1	0.3	0.0	0.3	0.3	0.5	0.4
New Jersey	2.0	1.2	2.0	2.9	1.0	0.4	2.3	1.3	1.0	0.6	2.4	0.5
New Mexico	2.9	6.2	0.4	1.8	23.8	0.6	1.6	0.5	0.4	0.6	0.7	0.6
New York	4.8	1.4	2.0	3.9	9.4	0.8	0.9	0.8	6.8	1.4	7.8	1.9
North Carolina	1.6	0.7	1.5	0.3	0.3	0.6	0.8	31.5	4.2	0.2	2.3	2.2
North Dakota	0.1	0.0	0.1	0.0	0.3	0.5	0.1	0.3	0.1	0.2	0.1	1.7
Ohio	2.2	1.3	0.3	2.4	0.5	0.5	2.7	18.8	2.4	1.4	1.9	1.3
Oklahoma	0.2	0.1	1.9	0.1	0.2	0.3	1.3	2.5	0.3	0.1	0.6	1.0
Oregon	0.5	0.0	0.8	0.1	0.2	1.8	0.1	4.0	1.0	0.1	1.3	2.6
Pennsylvania	3.0	0.2	0.6	2.1	5.1	0.6	0.8	0.3	5.0	0.5	4.5	2.5
Rhode Island	0.6	0.3	0.1	0.8	0.0	0.3	0.0	2.7	0.5	0.1	0.8	0.1
South Carolina	0.3	0.3	1.8	0.3	0.3	0.5	0.1	0.2	0.4	0.1	0.7	0.9
South Dakota	0.1	0.0	0.0	0.0	0.0	2.1	0.1	0.2	0.1	0.1	0.1	0.4

TABLE 88. Percentage distribution of federal obligations for research and development, by selected agency, by state and other locations: FY 2006

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Tennessee	1.4	9.1	0.2	0.2	6.7	0.5	0.9	0.1	1.5	2.6	0.7	1.1
Texas	4.9	0.6	1.3	6.7	0.6	1.8	0.9	0.3	3.9	3.7	3.3	4.6
Utah	0.7	0.0	0.1	0.8	0.1	0.6	0.0	0.0	0.5	1.0	0.9	1.5
Vermont	0.1	0.0	0.2	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.1	0.4
Virginia	8.2	11.5	0.8	13.5	1.3	25.3	14.8	1.4	1.5	6.6	3.5	0.7
Washington	3.7	3.7	4.9	4.9	2.5	1.3	0.6	1.2	3.1	0.5	2.6	2.2
West Virginia	0.3	0.0	0.3	0.1	1.4	0.9	0.3	0.1	0.2	0.4	0.2	1.6
Wisconsin	0.6	0.1	0.4	0.1	0.4	2.2	0.3	0.3	1.3	0.2	1.7	2.5
Wyoming	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.2	0.4
Outlying areas	0.1	0.0	0.3	0.1	0.0	0.2	0.0	0.0	0.2	0.0	0.5	0.7
Puerto Rico	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.5	0.5
Other areas	0.1	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2
Offices abroad	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2006. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 89. Percentage distribution of federal obligations for research and development, by state and other locations, by selected agency: FY 2006

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
All locations	100.0	1.6	0.9	50.0	7.0	0.6	0.8	0.6	26.4	6.7	3.5	2.1
Alabama	100.0	0.3	0.4	76.7	0.5	0.1	0.2	0.1	13.1	6.4	0.9	1.4
Alaska	100.0	0.5	11.7	41.3	3.7	12.0	0.8	0.8	6.4	4.1	11.5	7.3
Arizona	100.0	1.2	0.1	76.9	0.5	0.4	0.1	0.1	8.1	4.6	6.6	1.4
Arkansas	100.0	0.0	0.0	7.9	1.4	1.0	0.2	0.1	54.7	2.7	6.1	25.8
California	100.0	1.5	0.2	58.3	7.3	0.4	0.1	0.1	15.6	13.2	2.8	0.6
Colorado	100.0	0.1	6.5	41.1	5.7	4.2	0.7	0.1	16.3	13.8	9.6	1.8
Connecticut	100.0	2.2	0.4	63.7	1.4	0.1	0.1	0.1	27.8	0.9	2.6	0.7
Delaware	100.0	0.2	1.5	26.4	11.1	0.7	1.3	0.1	27.8	5.3	19.9	5.7
District of Columbia	100.0	4.2	0.1	30.9	7.9	0.1	7.1	2.4	5.9	30.7	3.2	7.6
Florida	100.0	0.2	1.6	70.9	0.6	1.1	0.3	0.6	14.8	2.5	4.7	2.7
Georgia	100.0	7.9	0.1	33.6	2.8	0.4	0.6	0.6	40.8	1.8	5.5	5.8
Hawaii	100.0	0.0	3.9	51.2	1.6	2.3	0.0	0.0	17.8	4.5	9.6	9.0
Idaho	100.0	1.4	0.5	10.0	68.4	1.5	0.2	0.0	4.2	2.8	2.7	8.5
Illinois	100.0	4.5	0.2	14.5	30.6	0.1	0.5	0.1	36.8	1.0	8.6	3.2
Indiana	100.0	0.3	0.3	37.2	4.4	0.4	0.5	0.1	37.8	3.0	13.0	2.9
Iowa	100.0	0.0	0.3	31.7	6.6	0.4	1.0	0.1	38.7	1.5	6.2	13.5
Kansas	100.0	0.0	0.0	26.6	3.5	1.1	4.8	0.1	38.8	1.5	14.2	9.3
Kentucky	100.0	1.0	0.0	19.9	2.0	0.5	0.2	0.1	60.2	2.1	7.2	6.8
Louisiana	100.0	0.0	0.3	10.1	1.6	5.5	1.0	0.1	52.5	6.1	7.3	15.5
Maine	100.0	0.9	0.7	53.3	0.1	1.2	0.0	0.3	32.2	1.4	6.1	3.9
Maryland	100.0	1.5	3.2	29.2	0.2	0.1	0.3	0.0	57.6	5.8	0.7	1.3
Massachusetts	100.0	1.3	0.4	51.4	1.6	0.2	1.9	0.2	36.5	2.1	3.9	0.5
Michigan	100.0	0.2	0.8	51.7	2.3	0.4	1.7	0.3	32.5	1.4	7.1	1.6
Minnesota	100.0	0.4	0.1	52.4	0.9	0.2	0.1	1.6	35.1	1.0	4.5	3.7
Mississippi	100.0	0.0	3.1	62.7	1.1	0.9	0.2	0.0	9.0	3.9	1.9	16.9
Missouri	100.0	0.2	0.0	49.8	0.5	0.8	0.7	0.0	39.5	1.3	4.3	3.1
Montana	100.0	0.0	0.1	26.5	4.7	5.1	0.0	0.0	25.5	9.3	9.9	18.9
Nebraska	100.0	0.0	0.1	12.7	1.6	1.2	1.9	0.3	49.2	1.4	10.6	20.9
Nevada	100.0	5.7	0.2	12.4	64.4	0.7	0.5	4.6	5.5	2.2	2.9	0.8
New Hampshire	100.0	9.4	6.5	46.3	0.5	0.2	0.7	0.0	23.7	5.3	4.7	2.6
New Jersey	100.0	1.0	0.9	73.1	3.5	0.1	0.9	0.4	13.4	1.9	4.3	0.5
New Mexico	100.0	3.5	0.1	31.3	58.1	0.1	0.4	0.1	3.8	1.3	0.8	0.5
New York	100.0	0.5	0.4	39.9	13.6	0.1	0.1	0.1	37.1	1.9	5.6	0.8
North Carolina	100.0	0.7	0.8	9.5	1.5	0.2	0.4	11.0	67.6	0.6	5.0	2.8
North Dakota	100.0	0.0	0.6	14.5	18.1	3.0	0.8	1.7	13.3	11.1	4.3	32.6
Ohio	100.0	0.9	0.1	54.5	1.6	0.1	0.9	4.8	28.7	4.3	2.9	1.2
Oklahoma	100.0	0.7	7.0	24.2	4.7	0.7	4.0	5.9	34.4	1.6	7.9	8.8
Oregon	100.0	0.0	1.5	7.7	3.7	2.2	0.2	4.9	56.9	1.8	10.0	11.2
Pennsylvania	100.0	0.1	0.2	35.1	12.1	0.1	0.2	0.1	44.2	1.1	5.2	1.7
Rhode Island	100.0	0.8	0.2	68.4	0.6	0.3	0.0	2.7	21.0	0.9	4.7	0.4
South Carolina	100.0	1.4	4.5	40.8	5.2	0.8	0.1	0.4	33.8	1.1	6.7	5.4
South Dakota	100.0	0.0	0.2	21.3	1.4	16.6	1.5	1.5	27.1	10.9	6.9	12.5



TABLE 89. Percentage distribution of federal obligations for research and development, by state and other locations, by selected agency: FY 2006

State/location	Total R&D	DHS	DOC	DOD	DOE	DOI	DOT	EPA	HHS	NASA	NSF	USDA
Tennessee	100.0	10.8	0.1	8.5	34.9	0.2	0.5	0.1	28.5	13.0	1.8	1.6
Texas	100.0	0.2	0.2	68.1	0.8	0.2	0.1	0.0	20.9	5.1	2.3	1.9
Utah	100.0	0.1	0.1	58.1	1.5	0.5	0.0	0.0	20.6	9.9	4.7	4.4
Vermont	100.0	0.3	1.5	15.8	3.2	1.1	0.0	0.9	60.6	3.0	4.2	9.3
Virginia	100.0	2.2	0.1	81.6	1.1	1.7	1.4	0.1	4.8	5.4	1.5	0.2
Washington	100.0	1.6	1.1	65.7	4.7	0.2	0.1	0.2	21.8	0.9	2.4	1.2
West Virginia	100.0	0.0	0.9	23.5	34.0	1.9	0.8	0.1	14.6	10.5	2.3	11.5
Wisconsin	100.0	0.1	0.6	11.9	4.8	2.1	0.3	0.3	59.0	1.8	10.2	8.7
Wyoming	100.0	0.0	0.9	12.5	4.3	6.3	4.0	0.0	20.0	3.4	25.1	23.6
Outlying areas	100.0	0.0	1.6	30.5	0.4	0.8	0.0	0.0	43.8	1.0	12.4	9.6
Puerto Rico	100.0	0.0	0.8	1.8	0.6	0.7	0.0	0.0	64.8	1.7	19.4	10.3
Other areas	100.0	0.0	2.9	75.8	0.0	0.9	0.0	0.0	10.5	0.0	1.5	8.5
Offices abroad	100.0	0.0	0.0	97.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2006. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Alabama	2,161,708	831,157	943,212	0	357,247	0	27,559	0	2,533
Department of Agriculture	30,026	9,529	0	0	20,497	0	0	0	0
Department of Commerce	7,609	590	241	0	6,709	0	41	0	28
Department of Defense, research	92,069	32,091	52,634	0	6,204	0	1,140	0	0
Department of Defense, total development <sup>b</sup>	1,566,709	781,115	778,455	0	5,531	0	1,608	0	0
Department of Energy	10,530	0	207	0	10,099	0	120	0	104
Department of Health and Human Services	282,592	1,310	7,277	0	249,504	0	23,786	0	715
Department of Homeland Security	6,051	5,222	136	0	693	0	0	0	0
Department of the Interior	2,015	1,165	86	0	479	0	0	0	285
Department of Transportation	3,786	135	284	0	2,961	0	406	0	0
Environmental Protection Agency	1,350	0	0	0	967	0	250	0	133
National Aeronautics and Space Administration	138,564	0	102,973	0	34,191	0	132	0	1,268
National Science Foundation	20,407	0	919	0	19,412	0	76	0	0
Alaska	209,038	56,939	63,900	0	67,235	0	16,324	0	4,640
Department of Agriculture	15,344	12,264	0	0	2,951	0	120	0	9
Department of Commerce	24,507	12,487	85	0	11,141	0	207	0	587
Department of Defense, research	15,195	0	14,022	0	1,173	0	0	0	0
Department of Defense, total development <sup>b</sup>	71,043	9,502	37,300	0	18,241	0	6,000	0	0
Department of Energy	7,790	0	3,581	0	3,104	0	0	0	1,105
Department of Health and Human Services	13,361	2,500	270	0	6,309	0	3,338	0	944
Department of Homeland Security	1,002	0	2	0	0	0	1,000	0	0
Department of the Interior	24,987	20,186	1,047	0	2,240	0	1,199	0	315
Department of Transportation	1,690	0	1,690	0	0	0	0	0	0
Environmental Protection Agency	1,636	0	0	0	0	0	0	0	1,636
National Aeronautics and Space Administration	8,526	0	5,888	0	2,638	0	0	0	0
National Science Foundation	23,957	0	15	0	19,438	0	4,460	0	44
Arizona	2,056,284	317,106	1,350,422	0	285,763	63,584	30,179	0	9,230
Department of Agriculture	28,786	19,809	11	0	8,882	0	31	0	53
Department of Commerce	2,401	350	0	0	2,051	0	0	0	0
Department of Defense, research	81,042	8,218	53,075	0	19,585	0	164	0	0
Department of Defense, total development <sup>b</sup>	1,500,435	252,612	1,240,850	0	3,356	0	0	0	3,617
Department of Energy	9,767	0	1,362	0	8,405	0	0	0	0
Department of Health and Human Services	166,719	4,852	9,395	0	124,947	0	26,293	0	1,232
Department of Homeland Security	25,609	24,066	1,053	0	0	0	0	0	490
Department of the Interior	8,647	7,164	35	0	1,025	0	11	0	412
Department of Transportation	2,452	35	1,445	0	385	0	587	0	0
Environmental Protection Agency	1,060	0	0	0	732	0	0	0	328
National Aeronautics and Space Administration	94,046	0	41,931	0	46,429	0	2,588	0	3,098
National Science Foundation	135,320	0	1,265	0	69,966	63,584	505	0	0
Arkansas	156,164	42,984	12,178	0	94,191	0	5,575	0	1,236

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Agriculture	40,226	18,556	0	0	20,547	0	670	0	453
Department of Defense, research	4,660	0	175	0	4,485	0	0	0	0
Department of Defense, total development <sup>b</sup>	7,701	18	3,363	0	4,320	0	0	0	0
Department of Energy	2,235	0	0	0	1,672	0	563	0	0
Department of Health and Human Services	85,476	22,987	5,122	0	52,626	0	4,342	0	399
Department of the Interior	1,616	1,423	0	0	102	0	0	0	91
Department of Transportation	293	0	0	0	0	0	0	0	293
Environmental Protection Agency	225	0	225	0	0	0	0	0	0
National Aeronautics and Space Administration	4,205	0	1,273	0	2,932	0	0	0	0
National Science Foundation	9,527	0	2,020	0	7,507	0	0	0	0
California	21,156,522	1,561,609	12,052,376	0	3,244,675	3,008,452	1,029,148	216,938	43,324
Department of Agriculture	127,401	90,274	233	0	35,564	0	1,330	0	0
Department of Commerce	32,208	3,125	14,883	0	10,845	1,200	2,138	0	17
Department of Defense, research	837,329	109,737	417,297	0	214,674	14,901	54,068	26,652	0
Department of Defense, total development <sup>b</sup>	11,503,910	1,225,037	9,969,822	0	66,865	45,541	9,052	187,543	50
Department of Energy	1,546,689	4,768	69,619	0	117,307	1,320,851	30,725	0	3,419
Department of Health and Human Services	3,292,052	1,759	276,096	0	2,097,950	50,122	856,808	0	9,317
Department of Homeland Security	312,165	43,848	65,187	0	2,175	191,588	1,559	0	7,808
Department of the Interior	83,442	80,789	394	0	2,239	0	20	0	0
Department of Transportation	18,527	2,069	11,106	0	779	0	3,203	0	1,370
Environmental Protection Agency	12,734	0	715	0	10,855	0	564	0	600
National Aeronautics and Space Administration	2,790,251	0	1,205,103	0	167,689	1,383,896	12,968	0	20,595
National Science Foundation	599,814	203	21,921	0	517,733	353	56,713	2,743	148
Colorado	2,029,641	277,517	1,028,834	0	475,471	106,960	41,107	86,925	12,827
Department of Agriculture	36,314	24,189	119	0	11,926	0	80	0	0
Department of Commerce	132,688	100,146	3,684	0	25,545	2,813	0	0	500
Department of Defense, research	73,052	8,921	40,729	0	23,138	112	102	50	0
Department of Defense, total development <sup>b</sup>	761,826	43,518	709,370	0	4,611	4,327	0	0	0
Department of Energy	116,059	628	10,268	0	13,572	0	4,716	86,875	0
Department of Health and Human Services	330,442	10,654	17,377	0	268,064	0	26,626	0	7,721
Department of Homeland Security	1,213	472	280	0	0	0	0	0	461
Department of the Interior	85,652	79,966	1,960	0	2,125	0	506	0	1,095
Department of Transportation	14,813	8,054	4,073	0	0	2,392	219	0	75
Environmental Protection Agency	2,043	0	954	0	363	0	726	0	0
National Aeronautics and Space Administration	280,968	0	218,347	0	59,592	111	212	0	2,706
National Science Foundation	194,571	969	21,673	0	66,535	97,205	7,920	0	269
Connecticut	1,591,960	20,537	1,039,279	0	473,527	0	48,280	0	10,337
Department of Agriculture	11,634	3,416	0	0	7,316	0	0	0	902
Department of Commerce	6,364	0	2,120	0	3,424	0	20	0	800
Department of Defense, research	62,501	525	31,683	0	7,574	0	22,719	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Defense, total development <sup>b</sup>	951,090	4,499	942,582	0	499	0	3,510	0	0
Department of Energy	22,779	0	10,502	0	11,315	0	962	0	0
Department of Health and Human Services	442,987	0	15,534	0	399,100	0	20,390	0	7,963
Department of Homeland Security	34,445	11,002	23,443	0	0	0	0	0	0
Department of the Interior	1,307	1,061	0	0	93	0	0	0	153
Department of Transportation	1,731	34	1,215	0	0	0	0	0	482
Environmental Protection Agency	901	0	302	0	599	0	0	0	0
National Aeronautics and Space Administration	14,530	0	11,249	0	3,244	0	0	0	37
National Science Foundation	41,691	0	649	0	40,363	0	679	0	0
Delaware	108,657	3,157	16,716	0	72,619	0	15,762	0	403
Department of Agriculture	6,174	2,054	0	0	4,120	0	0	0	0
Department of Commerce	1,617	37	321	0	1,257	0	2	0	0
Department of Defense, research	19,294	46	4,821	0	14,427	0	0	0	0
Department of Defense, total development <sup>b</sup>	9,375	90	4,020	0	1,384	0	3,881	0	0
Department of Energy	12,070	0	0	0	3,986	0	8,084	0	0
Department of Health and Human Services	30,198	0	3,053	0	23,072	0	3,795	0	278
Department of Homeland Security	224	224	0	0	0	0	0	0	0
Department of the Interior	799	706	0	0	93	0	0	0	0
Department of Transportation	1,402	0	1,059	0	343	0	0	0	0
Environmental Protection Agency	140	0	0	0	15	0	0	0	125
National Aeronautics and Space Administration	5,769	0	3,442	0	2,327	0	0	0	0
National Science Foundation	21,595	0	0	0	21,595	0	0	0	0
District of Columbia	4,091,852	2,881,279	719,831	0	177,281	0	301,081	350	12,030
Department of Agriculture	310,672	293,011	15,865	0	689	0	1,107	0	0
Department of Commerce	2,108	316	303	0	1,070	0	416	0	3
Department of Defense, research	236,320	184,026	7,374	0	10,122	0	34,798	0	0
Department of Defense, total development <sup>b</sup>	1,026,041	581,723	441,830	0	450	0	1,688	350	0
Department of Energy	324,828	309,995	1,165	0	1,076	0	12,592	0	0
Department of Health and Human Services	242,368	4,064	18,379	0	141,716	0	74,907	0	3,302
Department of Homeland Security	172,627	96,941	69,262	0	0	0	5,171	0	1,253
Department of the Interior	2,385	2,277	0	0	103	0	5	0	0
Department of Transportation	290,247	91,843	132,982	0	773	0	64,494	0	155
Environmental Protection Agency	99,604	92,828	1,920	0	0	0	4,856	0	0
National Aeronautics and Space Administration	1,255,194	1,201,082	16,783	0	5,978	0	24,034	0	7,317
National Science Foundation	129,458	23,173	13,968	0	15,304	0	77,013	0	0
Florida	2,319,079	599,097	1,098,371	0	551,850	0	63,445	0	6,316
Department of Agriculture	61,627	37,246	0	0	23,054	0	965	0	362
Department of Commerce	38,230	22,804	1,057	0	13,961	0	214	0	194
Department of Defense, research	216,992	65,720	74,860	0	74,982	0	1,430	0	0
Department of Defense, total development <sup>b</sup>	1,427,167	433,471	968,416	0	23,700	0	1,530	0	50

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Energy	13,882	0	1,058	0	11,528	0	1,296	0	0
Department of Health and Human Services	343,167	0	11,618	0	276,023	0	54,946	0	580
Department of Homeland Security	4,208	1,360	839	0	257	0	0	0	1,752
Department of the Interior	25,391	23,043	171	0	1,737	0	201	0	239
Department of Transportation	6,806	1,487	1,379	0	1,378	0	1,753	0	809
Environmental Protection Agency	14,186	13,966	0	0	20	0	0	0	200
National Aeronautics and Space Administration	58,813	0	34,281	0	22,282	0	265	0	1,985
National Science Foundation	108,610	0	4,692	0	102,928	0	845	0	145
Georgia	1,251,445	331,682	386,912	0	507,805	0	18,729	0	6,317
Department of Agriculture	72,359	51,315	0	0	19,388	0	213	0	1,443
Department of Commerce	1,500	104	128	0	1,250	0	0	0	18
Department of Defense, research	45,201	2,236	17,336	0	25,237	0	392	0	0
Department of Defense, total development <sup>b</sup>	375,634	35,330	319,510	0	17,676	0	3,118	0	0
Department of Energy	35,145	0	17,067	0	10,938	0	7,140	0	0
Department of Health and Human Services	510,567	134,030	8,212	0	358,880	0	7,179	0	2,266
Department of Homeland Security	98,578	97,760	56	0	453	0	0	0	309
Department of the Interior	5,468	5,211	0	0	134	0	0	0	123
Department of Transportation	7,432	112	4,346	0	2,974	0	0	0	0
Environmental Protection Agency	7,892	5,584	225	0	2,030	0	0	0	53
National Aeronautics and Space Administration	22,757	0	18,608	0	4,064	0	37	0	48
National Science Foundation	68,912	0	1,424	0	64,781	0	650	0	2,057
Hawaii	340,094	85,636	75,387	0	159,954	0	18,033	0	1,084
Department of Agriculture	30,607	11,930	0	0	12,869	0	5,808	0	0
Department of Commerce	13,144	6,338	133	0	5,591	0	1,075	0	7
Department of Defense, research	22,323	944	11,495	0	9,839	0	45	0	0
Department of Defense, total development <sup>b</sup>	151,910	60,171	53,404	0	38,143	0	192	0	0
Department of Energy	5,462	0	0	0	4,782	0	680	0	0
Department of Health and Human Services	60,699	0	5,274	0	44,401	0	10,053	0	971
Department of the Interior	7,809	6,253	0	0	1,556	0	0	0	0
National Aeronautics and Space Administration	15,401	0	3,731	0	11,564	0	0	0	106
National Science Foundation	32,739	0	1,350	0	31,209	0	180	0	0
Idaho	297,094	25,770	66,220	155,130	46,934	0	1,783	0	1,257
Department of Agriculture	25,145	17,566	0	0	7,579	0	0	0	0
Department of Commerce	1,529	335	461	0	598	0	0	0	135
Department of Defense, research	7,999	1,145	2,010	871	3,973	0	0	0	0
Department of Defense, total development <sup>b</sup>	21,564	1,431	6,351	9,127	4,655	0	0	0	0
Department of Energy	203,105	1,269	56,718	141,095	3,061	0	962	0	0
Department of Health and Human Services	12,580	0	104	0	11,655	0	821	0	0
Department of Homeland Security	4,037	0	0	4,037	0	0	0	0	0
Department of the Interior	4,498	4,024	35	0	439	0	0	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Transportation	450	0	0	0	450	0	0	0	0
National Aeronautics and Space Administration	8,290	0	541	0	6,771	0	0	0	978
National Science Foundation	7,897	0	0	0	7,753	0	0	0	144
Illinois	1,975,552	107,550	277,823	0	920,899	572,946	91,055	0	5,279
Department of Agriculture	62,853	39,229	67	0	23,368	0	189	0	0
Department of Commerce	4,121	117	1,658	0	2,317	29	0	0	0
Department of Defense, research	107,387	16,343	31,934	0	52,820	3,571	2,719	0	0
Department of Defense, total development <sup>b</sup>	179,125	47,997	123,240	0	4,621	1,300	1,967	0	0
Department of Energy	605,010	1,231	6,152	0	46,789	547,004	3,658	0	176
Department of Health and Human Services	727,047	118	21,693	0	613,894	12,209	75,409	0	3,724
Department of Homeland Security	88,061	1,031	76,522	0	1,343	8,249	0	0	916
Department of the Interior	1,602	1,061	0	0	184	357	0	0	0
Department of Transportation	9,217	423	6,300	0	1,149	0	1,325	0	20
Environmental Protection Agency	1,370	0	70	0	955	0	345	0	0
National Aeronautics and Space Administration	19,583	0	7,812	0	11,305	0	128	0	338
National Science Foundation	170,176	0	2,375	0	162,154	227	5,315	0	105
Indiana	559,860	97,123	115,542	0	343,279	0	2,805	0	1,111
Department of Agriculture	16,487	5,801	0	0	10,643	0	43	0	0
Department of Commerce	1,653	37	0	0	1,616	0	0	0	0
Department of Defense, research	32,474	7,483	6,795	0	17,934	0	262	0	0
Department of Defense, total development <sup>b</sup>	175,733	81,710	90,738	0	3,285	0	0	0	0
Department of Energy	24,501	0	1,208	0	22,331	0	962	0	0
Department of Health and Human Services	211,463	0	10,543	0	199,117	0	1,528	0	275
Department of Homeland Security	1,945	0	543	0	1,010	0	0	0	392
Department of the Interior	2,292	2,092	0	0	93	0	0	0	107
Department of Transportation	2,790	0	427	0	2,353	0	0	0	10
Environmental Protection Agency	582	0	295	0	277	0	10	0	0
National Aeronautics and Space Administration	16,952	0	3,706	0	12,919	0	0	0	327
National Science Foundation	72,988	0	1,287	0	71,701	0	0	0	0
Iowa	497,173	49,250	153,424	0	263,033	22,606	6,021	0	2,839
Department of Agriculture	67,213	47,420	0	0	19,720	0	73	0	0
Department of Commerce	1,575	141	28	0	1,406	0	0	0	0
Department of Defense, research	15,705	13	6,477	0	8,948	267	0	0	0
Department of Defense, total development <sup>b</sup>	142,082	36	140,974	0	1,072	0	0	0	0
Department of Energy	32,674	0	144	0	7,291	21,341	3,898	0	0
Department of Health and Human Services	192,484	0	3,254	0	186,784	0	1,951	0	495
Department of the Interior	2,224	1,640	0	0	213	0	0	0	371
Department of Transportation	4,968	0	1,099	0	898	998	0	0	1,973
Environmental Protection Agency	297	0	0	0	198	0	99	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
National Aeronautics and Space Administration	7,289	0	794	0	6,495	0	0	0	0
National Science Foundation	30,662	0	654	0	30,008	0	0	0	0
Kansas	212,152	17,787	53,747	0	135,766	0	2,475	0	2,377
Department of Agriculture	19,723	8,636	0	0	11,067	0	20	0	0
Department of Commerce	11	0	0	0	11	0	0	0	0
Department of Defense, research	10,460	1,110	3,571	0	5,706	0	73	0	0
Department of Defense, total development <sup>b</sup>	46,010	5,253	40,057	0	700	0	0	0	0
Department of Energy	7,517	0	200	0	7,279	0	38	0	0
Department of Health and Human Services	82,409	654	2,565	0	74,480	0	2,333	0	2,377
Department of Homeland Security	11	0	11	0	0	0	0	0	0
Department of the Interior	2,373	2,134	0	0	239	0	0	0	0
Department of Transportation	10,097	0	4,710	0	5,387	0	0	0	0
Environmental Protection Agency	225	0	225	0	0	0	0	0	0
National Aeronautics and Space Administration	3,191	0	2,216	0	975	0	0	0	0
National Science Foundation	30,125	0	192	0	29,922	0	11	0	0
Kentucky	239,141	18,127	32,911	0	184,855	0	2,309	0	939
Department of Agriculture	16,309	2,968	0	0	13,341	0	0	0	0
Department of Defense, research	19,363	2,953	8,791	0	6,848	0	771	0	0
Department of Defense, total development <sup>b</sup>	28,316	11,201	17,081	0	34	0	0	0	0
Department of Energy	4,831	0	517	0	4,025	0	289	0	0
Department of Health and Human Services	143,992	0	5,208	0	137,244	0	1,249	0	291
Department of Homeland Security	2,366	0	4	0	2,362	0	0	0	0
Department of the Interior	1,098	1,005	0	0	93	0	0	0	0
Department of Transportation	370	0	0	0	0	0	0	0	370
Environmental Protection Agency	221	0	0	0	221	0	0	0	0
National Aeronautics and Space Administration	4,996	0	1,210	0	3,783	0	0	0	3
National Science Foundation	17,279	0	100	0	16,904	0	0	0	275
Louisiana	321,096	51,916	39,884	0	219,548	0	5,956	0	3,792
Department of Agriculture	49,710	37,530	0	0	12,130	0	50	0	0
Department of Commerce	1,042	0	81	0	926	0	0	0	35
Department of Defense, research	9,028	202	533	0	8,191	0	102	0	0
Department of Defense, total development <sup>b</sup>	23,495	445	21,183	0	1,867	0	0	0	0
Department of Energy	5,103	0	0	0	5,103	0	0	0	0
Department of Health and Human Services	168,680	2,584	1,472	0	158,261	0	5,786	0	577
Department of Homeland Security	2	0	2	0	0	0	0	0	0
Department of the Interior	17,508	11,155	1,505	0	4,658	0	0	0	190
Department of Transportation	3,342	0	2,475	0	0	0	18	0	849
Environmental Protection Agency	221	0	0	0	170	0	0	0	51
National Aeronautics and Space Administration	19,546	0	12,633	0	6,913	0	0	0	0
National Science Foundation	23,419	0	0	0	21,329	0	0	0	2,090

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Maine	226,468	8,306	119,730	0	27,478	0	68,462	0	2,492
Department of Agriculture	8,757	2,919	0	0	5,371	0	0	0	467
Department of Commerce	1,570	13	6	0	1,224	0	21	0	306
Department of Defense, research	8,620	635	4,657	0	3,218	0	110	0	0
Department of Defense, total development <sup>b</sup>	112,182	654	109,733	0	1,795	0	0	0	0
Department of Energy	297	0	0	0	200	0	97	0	0
Department of Health and Human Services	72,831	0	2,272	0	3,813	0	65,183	0	1,563
Department of Homeland Security	1,969	1,782	2	0	185	0	0	0	0
Department of the Interior	2,672	2,303	35	0	178	0	0	0	156
Department of Transportation	100	0	100	0	0	0	0	0	0
Environmental Protection Agency	609	0	70	0	484	0	55	0	0
National Aeronautics and Space Administration	3,082	0	2,655	0	427	0	0	0	0
National Science Foundation	13,779	0	200	0	10,583	0	2,996	0	0
Maryland	12,499,496	7,965,233	2,389,325	306,973	1,453,559	0	235,804	0	148,602
Department of Agriculture	165,029	149,425	100	0	13,536	0	1,968	0	0
Department of Commerce	399,687	368,791	7,413	0	22,989	0	72	0	422
Department of Defense, research	517,734	305,395	125,107	30	63,930	0	23,272	0	0
Department of Defense, total development <sup>b</sup>	3,133,226	1,622,952	1,217,234	13,481	265,042	0	14,517	0	0
Department of Energy	28,061	2,663	5,362	0	14,219	0	5,755	0	62
Department of Health and Human Services	7,202,157	5,355,095	581,163	293,263	788,713	0	180,714	0	3,209
Department of Homeland Security	184,429	133,507	45,834	0	5,044	0	44	0	0
Department of the Interior	15,557	14,173	353	0	858	0	0	0	173
Department of Transportation	38,077	7,998	27,671	0	1,405	0	803	0	200
Environmental Protection Agency	3,942	0	0	0	3,574	0	298	0	70
National Aeronautics and Space Administration	720,471	0	372,396	199	203,015	0	395	0	144,466
National Science Foundation	91,126	5,234	6,692	0	71,234	0	7,966	0	0
Massachusetts	6,104,611	990,289	1,979,828	0	1,396,296	318,670	1,239,655	153,100	26,773
Department of Agriculture	29,660	6,373	160	0	22,523	0	604	0	0
Department of Commerce	23,015	9,462	2,760	0	10,210	0	72	0	511
Department of Defense, research	399,159	76,967	147,947	0	109,086	48,933	16,053	173	0
Department of Defense, total development <sup>b</sup>	2,737,682	782,529	1,501,504	0	30,418	265,481	4,823	152,927	0
Department of Energy	94,924	0	8,674	0	84,213	0	2,037	0	0
Department of Health and Human Services	2,228,176	1,313	162,216	0	884,742	0	1,179,473	0	432
Department of Homeland Security	82,055	8,930	65,009	0	923	622	4,493	0	2,078
Department of the Interior	11,001	10,659	0	0	288	0	54	0	0
Department of Transportation	117,757	93,803	18,129	0	1,150	3,634	562	0	479
Environmental Protection Agency	12,350	253	576	0	3,779	0	7,550	0	192
National Aeronautics and Space Administration	127,958	0	60,988	0	40,255	0	3,634	0	23,081
National Science Foundation	240,874	0	11,865	0	208,709	0	20,300	0	0



TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Michigan	1,680,908	196,552	708,169	0	726,966	0	40,780	0	8,441
Department of Agriculture	27,212	6,111	0	0	21,091	0	10	0	0
Department of Commerce	12,979	6,239	4,709	0	2,031	0	0	0	0
Department of Defense, research	91,674	23,125	24,512	0	43,669	0	368	0	0
Department of Defense, total development <sup>b</sup>	777,159	151,927	618,667	0	5,535	0	200	0	830
Department of Energy	38,442	0	6,564	0	27,964	0	3,914	0	0
Department of Health and Human Services	547,047	654	20,683	0	487,146	0	34,843	0	3,721
Department of Homeland Security	4,102	692	18	0	709	0	0	0	2,683
Department of the Interior	6,510	6,052	0	0	235	0	0	0	223
Department of Transportation	27,906	425	23,147	0	2,665	0	685	0	984
Environmental Protection Agency	5,830	1,327	382	0	3,891	0	230	0	0
National Aeronautics and Space Administration	23,025	0	6,021	0	17,004	0	0	0	0
National Science Foundation	119,022	0	3,466	0	115,026	0	530	0	0
Minnesota	1,237,266	52,182	659,534	0	326,009	0	193,583	0	5,958
Department of Agriculture	45,438	27,084	0	0	18,352	0	2	0	0
Department of Commerce	730	15	0	0	715	0	0	0	0
Department of Defense, research	49,459	100	33,692	0	7,624	0	8,043	0	0
Department of Defense, total development <sup>b</sup>	598,893	2,782	593,918	0	1,496	0	697	0	0
Department of Energy	11,656	0	4,000	0	7,415	0	241	0	0
Department of Health and Human Services	433,836	0	16,980	0	226,661	0	184,237	0	5,958
Department of Homeland Security	5,260	574	1	0	4,685	0	0	0	0
Department of the Interior	2,932	2,615	0	0	317	0	0	0	0
Department of Transportation	1,390	0	120	0	1,234	0	36	0	0
Environmental Protection Agency	19,283	19,012	0	0	271	0	0	0	0
National Aeronautics and Space Administration	12,559	0	8,565	0	3,994	0	0	0	0
National Science Foundation	55,830	0	2,258	0	53,245	0	327	0	0
Mississippi	544,029	145,880	244,838	0	140,549	0	10,532	0	2,230
Department of Agriculture	92,085	58,005	0	0	33,462	0	598	0	20
Department of Commerce	17,048	1,644	433	0	7,736	0	6,886	0	349
Department of Defense, research	34,752	27,630	931	0	6,191	0	0	0	0
Department of Defense, total development <sup>b</sup>	306,494	54,961	238,308	0	13,213	0	12	0	0
Department of Energy	5,820	0	0	0	5,717	0	0	0	103
Department of Health and Human Services	49,189	0	338	0	46,228	0	1,501	0	1,122
Department of Homeland Security	102	0	102	0	0	0	0	0	0
Department of the Interior	5,118	3,640	35	0	370	0	851	0	222
Department of Transportation	1,348	0	160	0	938	0	0	0	250
Environmental Protection Agency	67	0	0	0	0	0	0	0	67
National Aeronautics and Space Administration	21,485	0	4,431	0	16,353	0	604	0	97
National Science Foundation	10,521	0	100	0	10,341	0	80	0	0
Missouri	1,225,269	39,853	599,380	0	561,249	0	22,712	0	2,075

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Agriculture	37,660	14,054	0	0	23,341	0	260	0	5
Department of Commerce	350	30	0	0	320	0	0	0	0
Department of Defense, research	42,320	1,281	30,561	0	10,423	0	55	0	0
Department of Defense, total development <sup>b</sup>	567,963	14,149	552,191	0	1,175	0	448	0	0
Department of Energy	5,649	0	0	0	5,375	0	274	0	0
Department of Health and Human Services	483,532	576	12,992	0	455,028	0	13,583	0	1,353
Department of Homeland Security	2,111	0	2	0	0	0	1,441	0	668
Department of the Interior	9,232	8,861	70	0	278	0	0	0	23
Department of Transportation	8,240	902	596	0	2,170	0	4,572	0	0
National Aeronautics and Space Administration	15,350	0	1,471	0	13,853	0	0	0	26
National Science Foundation	52,862	0	1,497	0	49,286	0	2,079	0	0
Montana	149,876	22,091	32,897	0	86,987	0	6,720	0	1,181
Department of Agriculture	28,333	15,373	5	0	10,467	0	2,475	0	13
Department of Commerce	132	22	0	0	110	0	0	0	0
Department of Defense, research	17,170	0	7,439	0	9,731	0	0	0	0
Department of Defense, total development <sup>b</sup>	22,541	1,006	16,286	0	5,249	0	0	0	0
Department of Energy	7,073	0	100	0	6,614	0	359	0	0
Department of Health and Human Services	38,267	0	2,761	0	31,614	0	3,462	0	430
Department of the Interior	7,580	5,690	35	0	1,057	0	60	0	738
National Aeronautics and Space Administration	13,872	0	4,426	0	9,206	0	240	0	0
National Science Foundation	14,908	0	1,845	0	12,939	0	124	0	0
Nebraska	159,986	29,491	11,514	0	114,152	0	4,066	0	763
Department of Agriculture	33,498	24,263	0	0	9,235	0	0	0	0
Department of Commerce	226	37	0	0	189	0	0	0	0
Department of Defense, research	7,614	114	888	0	6,612	0	0	0	0
Department of Defense, total development <sup>b</sup>	12,727	3,379	5,641	0	3,707	0	0	0	0
Department of Energy	2,538	0	0	0	2,538	0	0	0	0
Department of Health and Human Services	78,731	0	3,671	0	70,735	0	4,062	0	263
Department of Homeland Security	4	0	4	0	0	0	0	0	0
Department of the Interior	1,877	1,698	35	0	144	0	0	0	0
Department of Transportation	3,027	0	0	0	2,527	0	0	0	500
Environmental Protection Agency	450	0	0	0	450	0	0	0	0
National Aeronautics and Space Administration	2,287	0	742	0	1,545	0	0	0	0
National Science Foundation	17,007	0	533	0	16,470	0	4	0	0
Nevada	422,449	58,137	271,457	0	87,767	0	4,095	0	993
Department of Agriculture	3,550	1,111	0	0	2,439	0	0	0	0
Department of Commerce	977	7	4	0	966	0	0	0	0
Department of Defense, research	16,265	6,196	3,715	0	6,354	0	0	0	0
Department of Defense, total development <sup>b</sup>	36,140	5,549	29,962	0	629	0	0	0	0
Department of Energy	272,263	241	228,949	0	41,186	0	1,887	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Health and Human Services	23,194	0	323	0	20,732	0	2,089	0	50
Department of Homeland Security	24,106	23,435	350	0	0	0	0	0	321
Department of the Interior	2,843	2,651	0	0	192	0	0	0	0
Department of Transportation	2,008	0	728	0	875	0	119	0	286
Environmental Protection Agency	19,340	18,947	225	0	0	0	0	0	168
National Aeronautics and Space Administration	9,376	0	6,901	0	2,307	0	0	0	168
National Science Foundation	12,387	0	300	0	12,087	0	0	0	0
New Hampshire	371,808	29,576	198,559	0	138,485	0	1,832	0	3,356
Department of Agriculture	9,769	6,838	0	0	2,824	0	107	0	0
Department of Commerce	24,304	4,382	273	0	19,646	0	0	0	3
Department of Defense, research	52,802	8,072	41,737	0	2,603	0	390	0	0
Department of Defense, total development <sup>b</sup>	119,328	8,060	109,115	0	869	0	1,284	0	0
Department of Energy	1,804	0	400	0	1,404	0	0	0	0
Department of Health and Human Services	88,232	0	4,715	0	83,298	0	10	0	209
Department of Homeland Security	34,981	693	34,288	0	0	0	0	0	0
Department of the Interior	789	622	0	0	93	0	0	0	74
Department of Transportation	2,523	0	2,225	0	224	0	0	0	74
Environmental Protection Agency	66	0	0	0	0	0	0	0	66
National Aeronautics and Space Administration	19,651	0	5,334	0	11,346	0	41	0	2,930
National Science Foundation	17,559	909	472	0	16,178	0	0	0	0
New Jersey	2,110,673	677,409	955,110	0	385,237	52,843	33,354	0	6,720
Department of Agriculture	10,864	99	1,982	0	8,773	0	0	0	10
Department of Commerce	19,283	14,844	988	0	2,731	0	20	0	700
Department of Defense, research	179,748	75,324	71,066	0	33,031	141	186	0	0
Department of Defense, total development <sup>b</sup>	1,363,659	549,902	805,158	0	7,489	0	1,110	0	0
Department of Energy	73,543	0	3,723	0	15,428	52,642	1,750	0	0
Department of Health and Human Services	282,443	0	37,332	0	211,386	0	29,797	0	3,928
Department of Homeland Security	20,331	15,678	3,996	0	0	0	1	0	656
Department of the Interior	2,697	2,247	84	0	94	0	0	0	272
Department of Transportation	18,946	15,790	2,030	0	1,066	60	0	0	0
Environmental Protection Agency	7,839	3,525	0	0	4,043	0	0	0	271
National Aeronautics and Space Administration	40,222	0	25,997	0	13,250	0	92	0	883
National Science Foundation	91,098	0	2,754	0	87,946	0	398	0	0
New Mexico	3,100,110	527,882	349,934	929,868	179,811	1,053,774	43,173	0	15,668
Department of Agriculture	14,131	6,249	0	0	6,168	0	1,704	0	10
Department of Commerce	3,574	33	2,011	74	1,456	0	0	0	0
Department of Defense, research	172,410	72,758	55,905	16,108	17,235	10,136	268	0	0
Department of Defense, total development <sup>b</sup>	797,909	373,766	253,502	136,402	15,485	13,277	5,477	0	0
Department of Energy	1,801,998	63,203	300	726,787	13,913	985,229	12,566	0	0
Department of Health and Human Services	116,480	0	4,056	1,191	77,978	10,587	18,161	0	4,507

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Homeland Security	107,091	3,792	22,195	46,170	389	34,545	0	0	0
Department of the Interior	3,792	2,509	51	0	538	0	0	0	694
Department of Transportation	13,427	5,445	4,353	3,136	200	0	247	0	46
Environmental Protection Agency	3,046	0	737	0	0	0	2,309	0	0
National Aeronautics and Space Administration	40,111	0	5,915	0	24,150	0	0	0	10,046
National Science Foundation	26,141	127	909	0	22,299	0	2,441	0	365
New York	5,225,241	144,752	2,360,132	0	1,947,401	0	381,042	273,280	118,634
Department of Agriculture	41,476	16,979	0	0	23,202	0	1,295	0	0
Department of Commerce	18,803	0	2,795	0	15,580	0	36	370	22
Department of Defense, research	254,160	89,395	104,044	0	56,617	0	3,005	1,099	0
Department of Defense, total development <sup>b</sup>	1,828,928	23,363	1,792,779	0	4,669	0	5,527	2,590	0
Department of Energy	709,691	633	326,898	0	114,799	0	9,475	257,427	459
Department of Health and Human Services	1,937,958	1,386	73,027	0	1,417,005	0	335,892	7,736	102,912
Department of Homeland Security	23,997	8,622	10,447	0	468	0	786	1,053	2,621
Department of the Interior	4,709	4,335	60	0	190	0	0	0	124
Department of Transportation	7,058	39	3,422	0	680	0	2,830	0	87
Environmental Protection Agency	5,116	0	365	0	4,064	0	605	0	82
National Aeronautics and Space Administration	98,789	0	42,429	0	36,283	0	5,032	3,005	12,040
National Science Foundation	294,556	0	3,866	0	273,844	0	16,559	0	287
North Carolina	1,765,859	402,140	190,240	0	1,058,911	0	107,863	0	6,705
Department of Agriculture	49,661	21,787	13	0	27,056	0	294	0	511
Department of Commerce	13,847	8,467	3,338	0	1,466	0	20	0	556
Department of Defense, research	97,321	35,200	14,638	0	42,381	0	5,102	0	0
Department of Defense, total development <sup>b</sup>	69,995	23,781	38,405	0	6,441	0	0	0	1,368
Department of Energy	25,748	0	0	0	18,582	0	7,166	0	0
Department of Health and Human Services	1,193,081	118,896	124,245	0	857,021	0	89,003	0	3,916
Department of Homeland Security	11,860	8,322	1,311	0	1,251	0	976	0	0
Department of the Interior	3,498	2,796	94	0	598	0	10	0	0
Department of Transportation	6,335	0	3,531	0	2,494	0	0	0	310
Environmental Protection Agency	195,028	182,891	260	0	10,089	0	1,744	0	44
National Aeronautics and Space Administration	10,960	0	2,935	0	4,977	0	3,048	0	0
National Science Foundation	88,525	0	1,470	0	86,555	0	500	0	0
North Dakota	112,067	27,370	2,361	0	74,623	0	7,706	0	7
Department of Agriculture	36,568	23,825	0	0	12,743	0	0	0	0
Department of Commerce	632	22	0	0	610	0	0	0	0
Department of Defense, research	11,947	225	418	0	11,304	0	0	0	0
Department of Defense, total development <sup>b</sup>	4,336	120	1,243	0	2,973	0	0	0	0
Department of Energy	20,327	0	0	0	13,681	0	6,646	0	0
Department of Health and Human Services	14,908	0	556	0	13,285	0	1,060	0	7
Department of Homeland Security	2	0	2	0	0	0	0	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of the Interior	3,307	3,122	0	0	185	0	0	0	0
Department of Transportation	870	56	22	0	792	0	0	0	0
Environmental Protection Agency	1,921	0	0	0	1,921	0	0	0	0
National Aeronautics and Space Administration	12,391	0	120	0	12,271	0	0	0	0
National Science Foundation	4,858	0	0	0	4,858	0	0	0	0
Ohio	2,420,136	749,536	791,722	0	682,061	0	191,778	0	5,039
Department of Agriculture	28,995	9,490	97	0	19,328	0	30	0	50
Department of Commerce	3,013	0	473	0	1,162	0	741	0	637
Department of Defense, research	485,294	283,142	143,762	0	46,396	0	11,994	0	0
Department of Defense, total development <sup>b</sup>	833,008	314,718	494,554	0	10,521	0	13,215	0	0
Department of Energy	37,688	1,759	10,004	0	16,133	0	9,792	0	0
Department of Health and Human Services	694,646	15,482	37,227	0	510,639	0	129,503	0	1,795
Department of Homeland Security	22,056	13,874	542	0	0	0	7,391	0	249
Department of the Interior	2,734	2,211	35	0	109	0	0	0	379
Department of Transportation	22,197	4,700	14,641	0	1,845	0	991	0	20
Environmental Protection Agency	116,350	104,160	8,350	0	1,565	0	1,175	0	1,100
National Aeronautics and Space Administration	103,963	0	75,775	0	10,836	0	16,683	0	669
National Science Foundation	70,192	0	6,262	0	63,527	0	263	0	140
Oklahoma	262,336	78,576	38,788	0	106,797	0	36,754	0	1,421
Department of Agriculture	23,094	13,026	0	0	10,068	0	0	0	0
Department of Commerce	18,244	7,817	744	0	9,683	0	0	0	0
Department of Defense, research	18,842	4,386	11,480	0	2,976	0	0	0	0
Department of Defense, total development <sup>b</sup>	44,659	24,958	18,446	0	1,255	0	0	0	0
Department of Energy	12,328	2,018	313	0	5,695	0	4,302	0	0
Department of Health and Human Services	90,319	0	2,035	0	56,169	0	30,694	0	1,421
Department of Homeland Security	1,748	1	1,747	0	0	0	0	0	0
Department of the Interior	1,956	1,478	0	0	478	0	0	0	0
Department of Transportation	10,608	9,613	779	0	216	0	0	0	0
Environmental Protection Agency	15,448	15,279	0	0	169	0	0	0	0
National Aeronautics and Space Administration	4,266	0	2,444	0	1,822	0	0	0	0
National Science Foundation	20,824	0	800	0	18,266	0	1,758	0	0
Oregon	505,321	82,451	62,424	0	313,931	0	42,265	0	4,250
Department of Agriculture	56,464	40,908	177	0	15,149	0	85	0	145
Department of Commerce	7,613	2,829	701	0	3,235	0	781	0	67
Department of Defense, research	16,387	71	7,281	0	9,035	0	0	0	0
Department of Defense, total development <sup>b</sup>	22,599	612	21,987	0	0	0	0	0	0
Department of Energy	18,695	8,976	6	0	8,301	0	1,412	0	0
Department of Health and Human Services	287,342	0	23,336	0	222,022	0	39,459	0	2,525
Department of Homeland Security	75	0	0	0	75	0	0	0	0
Department of the Interior	10,873	9,192	0	0	1,331	0	0	0	350

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Transportation	773	0	0	0	0	0	0	0	773
Environmental Protection Agency	24,518	19,863	3,490	0	1,048	0	0	0	117
National Aeronautics and Space Administration	9,256	0	3,635	0	5,376	0	0	0	245
National Science Foundation	50,726	0	1,811	0	48,359	0	528	0	28
Pennsylvania	3,227,533	203,436	1,064,225	0	1,521,089	27,443	399,592	0	11,748
Department of Agriculture	55,353	39,836	0	0	14,626	0	881	0	10
Department of Commerce	5,430	33	1,784	0	3,606	0	7	0	0
Department of Defense, research	184,346	7,384	46,819	0	127,066	408	2,669	0	0
Department of Defense, total development <sup>b</sup>	947,998	79,965	645,250	0	99,626	27,035	87,805	0	8,317
Department of Energy	389,050	54,173	298,323	0	33,744	0	2,810	0	0
Department of Health and Human Services	1,425,668	18,195	51,691	0	1,059,813	0	295,003	0	966
Department of Homeland Security	3,853	0	1,394	0	989	0	0	0	1,470
Department of the Interior	3,505	3,258	35	0	141	0	0	0	71
Department of Transportation	6,900	592	4,001	0	2,144	0	0	0	163
Environmental Protection Agency	1,739	0	556	0	692	0	0	0	491
National Aeronautics and Space Administration	34,358	0	11,331	0	22,493	0	276	0	258
National Science Foundation	169,333	0	3,041	0	156,149	0	10,141	0	2
Rhode Island	615,902	374,993	66,300	0	106,099	0	65,030	0	3,480
Department of Agriculture	2,247	3	0	0	2,186	0	58	0	0
Department of Commerce	1,026	0	79	0	912	0	15	0	20
Department of Defense, research	29,098	17,296	3,072	0	8,688	0	42	0	0
Department of Defense, total development <sup>b</sup>	392,359	339,396	52,819	0	144	0	0	0	0
Department of Energy	3,560	0	0	0	3,450	0	110	0	0
Department of Health and Human Services	129,310	0	4,470	0	57,309	0	64,071	0	3,460
Department of Homeland Security	5,047	0	5,047	0	0	0	0	0	0
Department of the Interior	1,793	1,676	0	0	117	0	0	0	0
Department of Transportation	68	0	68	0	0	0	0	0	0
Environmental Protection Agency	16,754	16,622	0	0	132	0	0	0	0
National Aeronautics and Space Administration	5,729	0	645	0	5,069	0	15	0	0
National Science Foundation	28,911	0	100	0	28,092	0	719	0	0
South Carolina	370,562	80,280	69,770	15,729	154,006	0	45,514	0	5,263
Department of Agriculture	20,043	11,937	0	0	7,472	0	0	0	634
Department of Commerce	16,594	8,014	4,209	0	3,735	0	16	0	620
Department of Defense, research	24,022	9,501	4,642	0	7,704	0	2,175	0	0
Department of Defense, total development <sup>b</sup>	127,285	44,954	49,467	219	6,203	0	26,442	0	0
Department of Energy	19,130	187	0	13,925	4,019	0	999	0	0
Department of Health and Human Services	125,146	0	8,225	0	110,203	0	3,091	0	3,627
Department of Homeland Security	5,227	3,642	0	1,585	0	0	0	0	0
Department of the Interior	2,803	2,045	299	0	105	0	0	0	354
Department of Transportation	446	0	140	0	306	0	0	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Environmental Protection Agency	1,304	0	69	0	0	0	1,235	0	0
National Aeronautics and Space Administration	3,913	0	1,658	0	2,227	0	0	0	28
National Science Foundation	24,649	0	1,061	0	12,032	0	11,556	0	0
South Dakota	75,926	17,185	10,974	0	36,071	0	3,953	0	7,743
Department of Agriculture	9,499	4,354	0	0	5,084	0	0	0	61
Department of Commerce	180	164	0	0	16	0	0	0	0
Department of Defense, research	10,446	780	3,032	0	6,634	0	0	0	0
Department of Defense, total development <sup>b</sup>	5,750	894	4,856	0	0	0	0	0	0
Department of Energy	1,087	0	0	0	1,087	0	0	0	0
Department of Health and Human Services	20,597	0	1,269	0	15,115	0	3,953	0	260
Department of the Interior	12,569	10,993	865	0	711	0	0	0	0
Department of Transportation	1,174	0	436	0	590	0	0	0	148
Environmental Protection Agency	1,114	0	0	0	857	0	0	0	257
National Aeronautics and Space Administration	8,308	0	5	0	1,286	0	0	0	7,017
National Science Foundation	5,202	0	511	0	4,691	0	0	0	0
Tennessee	1,455,622	84,441	219,665	0	422,179	54,445	79,098	587,367	8,427
Department of Agriculture	23,980	11,549	0	0	11,816	0	237	0	378
Department of Commerce	2,123	1,099	81	0	943	0	0	0	0
Department of Defense, research	46,703	12,984	8,073	0	18,283	1,523	0	5,840	0
Department of Defense, total development <sup>b</sup>	76,827	20,093	36,380	0	2,222	2,275	0	15,857	0
Department of Energy	507,853	1,854	1,650	0	8,950	11,764	7,337	476,298	0
Department of Health and Human Services	414,940	0	4,597	0	346,747	0	58,084	1,569	3,943
Department of Homeland Security	156,527	33,281	282	0	0	38,511	0	84,453	0
Department of the Interior	2,836	2,448	35	0	262	0	0	0	91
Department of Transportation	7,164	627	236	0	1,421	322	0	3,320	1,238
Environmental Protection Agency	834	0	225	0	609	0	0	0	0
National Aeronautics and Space Administration	189,360	0	166,900	0	6,468	0	13,185	30	2,777
National Science Foundation	26,475	506	1,206	0	24,458	50	255	0	0
Texas	5,263,822	254,335	3,476,600	0	1,344,668	0	177,831	148	10,240
Department of Agriculture	102,383	53,635	0	0	48,621	0	108	0	19
Department of Commerce	11,932	115	8,024	0	3,161	0	20	0	612
Department of Defense, research	142,214	25,246	43,887	0	68,123	0	4,958	0	0
Department of Defense, total development <sup>b</sup>	3,443,713	165,489	3,236,572	0	39,510	0	2,142	0	0
Department of Energy	42,865	666	6,720	0	31,404	0	3,889	0	186
Department of Health and Human Services	1,099,154	0	28,266	0	1,004,905	0	63,286	148	2,549
Department of Homeland Security	11,211	1,461	3,539	0	970	0	0	0	5,241
Department of the Interior	10,845	6,735	2,306	0	1,615	0	89	0	100
Department of Transportation	7,307	988	1,628	0	2,352	0	1,354	0	985
Environmental Protection Agency	2,166	0	140	0	1,796	0	9	0	221

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
National Aeronautics and Space Administration	266,714	0	140,924	0	24,727	0	100,896	0	167
National Science Foundation	123,318	0	4,594	0	117,484	0	1,080	0	160
Utah	737,850	254,505	257,796	0	221,675	0	3,214	0	660
Department of Agriculture	32,776	21,236	20	0	11,520	0	0	0	0
Department of Commerce	1,019	45	0	0	974	0	0	0	0
Department of Defense, research	32,615	5,237	21,369	0	5,809	0	200	0	0
Department of Defense, total development <sup>b</sup>	395,978	224,921	158,284	0	12,773	0	0	0	0
Department of Energy	11,305	0	318	0	10,987	0	0	0	0
Department of Health and Human Services	152,232	0	8,113	0	141,847	0	2,128	0	144
Department of Homeland Security	621	410	4	0	207	0	0	0	0
Department of the Interior	3,494	2,656	0	0	352	0	0	0	486
Department of Transportation	330	0	250	0	50	0	0	0	30
National Aeronautics and Space Administration	73,140	0	68,240	0	4,800	0	100	0	0
National Science Foundation	34,340	0	1,198	0	32,356	0	786	0	0
Vermont	105,544	7,903	15,462	0	78,544	0	1,930	0	1,705
Department of Agriculture	9,830	2,324	0	0	7,506	0	0	0	0
Department of Commerce	1,628	43	20	0	1,565	0	0	0	0
Department of Defense, research	4,506	0	4,043	0	434	0	29	0	0
Department of Defense, total development <sup>b</sup>	12,141	4,081	7,888	0	172	0	0	0	0
Department of Energy	3,359	0	87	0	2,310	0	962	0	0
Department of Health and Human Services	63,991	0	2,622	0	59,383	0	784	0	1,202
Department of Homeland Security	344	344	0	0	0	0	0	0	0
Department of the Interior	1,157	829	0	0	143	0	0	0	185
Department of Transportation	24	0	0	0	24	0	0	0	0
Environmental Protection Agency	947	282	0	0	192	0	155	0	318
National Aeronautics and Space Administration	3,132	0	302	0	2,830	0	0	0	0
National Science Foundation	4,485	0	500	0	3,985	0	0	0	0
Virginia	8,882,441	3,510,428	4,407,322	0	412,555	135,458	152,159	224,612	39,907
Department of Agriculture	16,343	1,322	0	0	13,365	0	1,656	0	0
Department of Commerce	7,826	2,139	1,449	0	3,256	0	982	0	0
Department of Defense, research	683,089	177,732	443,999	0	29,131	11,059	9,133	12,035	0
Department of Defense, total development <sup>b</sup>	6,561,227	3,142,229	3,149,930	0	20,029	1,127	38,122	208,860	930
Department of Energy	96,542	6,739	3,409	0	12,362	72,136	1,896	0	0
Department of Health and Human Services	427,544	0	167,006	0	231,686	0	25,072	0	3,780
Department of Homeland Security	199,206	54,439	117,327	0	0	0	27,440	0	0
Department of the Interior	152,747	119,233	2,319	0	16,031	0	2,481	0	12,683
Department of Transportation	121,465	3,040	103,103	0	2,976	0	10,072	0	2,274
Environmental Protection Agency	8,815	1,038	788	0	295	0	6,654	0	40
National Aeronautics and Space Administration	477,318	0	414,672	0	23,563	0	18,883	0	20,200
National Science Foundation	130,319	2,517	3,320	0	59,861	51,136	9,768	3,717	0



TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Washington	4,039,292	179,977	2,618,631	0	642,540	0	336,227	254,819	7,098
Department of Agriculture	49,148	33,044	0	0	16,044	0	60	0	0
Department of Commerce	45,743	37,171	35	0	8,370	0	37	0	130
Department of Defense, research	104,023	10,650	54,533	0	37,056	0	253	1,531	0
Department of Defense, total development <sup>b</sup>	2,550,803	74,472	2,468,476	0	5,406	0	83	2,366	0
Department of Energy	190,446	11,242	5,139	0	17,101	0	1,050	155,783	131
Department of Health and Human Services	882,355	5,899	62,058	0	446,853	0	332,035	31,170	4,340
Department of Homeland Security	63,607	534	2,151	0	0	0	0	60,458	464
Department of the Interior	7,782	6,684	35	0	579	0	7	0	477
Department of Transportation	5,135	68	1,908	0	1,139	0	856	0	1,164
Environmental Protection Agency	7,416	0	140	0	6,684	0	592	0	0
National Aeronautics and Space Administration	35,218	0	20,484	0	10,321	0	510	3,511	392
National Science Foundation	97,616	213	3,672	0	92,987	0	744	0	0
West Virginia	301,416	109,640	110,161	0	65,325	0	12,528	0	3,762
Department of Agriculture	34,589	26,005	6	0	6,515	0	2,063	0	0
Department of Commerce	2,822	728	93	0	2,001	0	0	0	0
Department of Defense, research	11,456	59	9,527	0	1,374	0	496	0	0
Department of Defense, total development <sup>b</sup>	59,339	2,062	55,071	0	0	0	2,206	0	0
Department of Energy	102,396	58,043	37,317	0	4,992	0	2,044	0	0
Department of Health and Human Services	44,013	18,315	0	0	25,201	0	346	0	151
Department of the Interior	5,645	4,312	0	0	1,022	0	0	0	311
Department of Transportation	2,358	116	0	0	1,942	0	0	0	300
Environmental Protection Agency	380	0	0	0	0	0	380	0	0
National Aeronautics and Space Administration	31,626	0	8,078	0	21,233	0	2,315	0	0
National Science Foundation	6,792	0	69	0	1,045	0	2,678	0	3,000
Wisconsin	635,645	45,131	89,898	0	476,407	0	22,221	0	1,988
Department of Agriculture	55,515	35,952	0	0	19,361	0	176	0	26
Department of Commerce	3,698	916	1,252	0	1,530	0	0	0	0
Department of Defense, research	42,677	18	30,945	0	11,714	0	0	0	0
Department of Defense, total development <sup>b</sup>	32,996	3	32,420	0	573	0	0	0	0
Department of Energy	30,809	0	2,543	0	28,266	0	0	0	0
Department of Health and Human Services	375,250	0	16,819	0	335,598	0	22,045	0	788
Department of Homeland Security	948	0	174	0	0	0	0	0	774
Department of the Interior	13,278	8,242	0	0	5,036	0	0	0	0
Department of Transportation	2,131	0	774	0	1,357	0	0	0	0
Environmental Protection Agency	1,920	0	921	0	599	0	0	0	400
National Aeronautics and Space Administration	11,578	0	3,594	0	7,984	0	0	0	0
National Science Foundation	64,845	0	456	0	64,389	0	0	0	0
Wyoming	36,169	7,125	3,997	0	23,338	0	1,410	0	299

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Agriculture	8,530	5,420	0	0	3,110	0	0	0	0
Department of Commerce	312	0	0	0	312	0	0	0	0
Department of Defense, research	3,551	0	2,003	0	1,548	0	0	0	0
Department of Defense, total development <sup>b</sup>	963	0	738	0	225	0	0	0	0
Department of Energy	1,571	0	0	0	1,451	0	0	0	120
Department of Health and Human Services	7,238	0	0	0	7,074	0	0	0	164
Department of the Interior	2,279	1,705	84	0	490	0	0	0	0
Department of Transportation	1,445	0	0	0	20	0	1,410	0	15
National Aeronautics and Space Administration	1,219	0	643	0	576	0	0	0	0
National Science Foundation	9,061	0	529	0	8,532	0	0	0	0
Outlying areas	161,183	55,454	1,405	0	86,916	12,140	3,691	0	1,577
Department of Agriculture	15,446	6,044	0	0	9,383	0	19	0	0
Department of Commerce	2,545	378	0	0	1,998	0	60	0	109
Department of Defense, research	1,794	0	0	0	1,794	0	0	0	0
Department of Defense, total development <sup>b</sup>	47,305	46,883	417	0	5	0	0	0	0
Department of Energy	578	0	0	0	578	0	0	0	0
Department of Health and Human Services	70,532	1,354	0	0	64,200	0	3,612	0	1,366
Department of the Interior	1,260	795	0	0	465	0	0	0	0
National Aeronautics and Space Administration	1,659	0	190	0	1,367	0	0	0	102
National Science Foundation	20,064	0	798	0	7,126	12,140	0	0	0
Puerto Rico	98,790	7,327	988	0	75,897	12,140	1,644	0	794
Department of Agriculture	10,141	5,358	0	0	4,764	0	19	0	0
Department of Commerce	743	0	0	0	716	0	0	0	27
Department of Defense, research	1,794	0	0	0	1,794	0	0	0	0
Department of Defense, total development <sup>b</sup>	5	0	0	0	5	0	0	0	0
Department of Energy	578	0	0	0	578	0	0	0	0
Department of Health and Human Services	64,005	1,354	0	0	60,361	0	1,625	0	665
Department of the Interior	708	615	0	0	93	0	0	0	0
National Aeronautics and Space Administration	1,659	0	190	0	1,367	0	0	0	102
National Science Foundation	19,157	0	798	0	6,219	12,140	0	0	0
Other areas	62,393	48,127	417	0	11,019	0	2,047	0	783
Department of Agriculture	5,305	686	0	0	4,619	0	0	0	0
Department of Commerce	1,802	378	0	0	1,282	0	60	0	82
Department of Defense, total development <sup>b</sup>	47,300	46,883	417	0	0	0	0	0	0
Department of Health and Human Services	6,527	0	0	0	3,839	0	1,987	0	701
Department of the Interior	552	180	0	0	372	0	0	0	0
National Science Foundation	907	0	0	0	907	0	0	0	0
Offices abroad	138,039	10,724	127,289	0	26	0	0	0	0

TABLE 90. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2006

(Dollars in thousands)

State/location and agency	Total R&D	Intramural <sup>a</sup>	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Agriculture	3,148	3,148	0	0	0	0	0	0	0
Department of Defense, research	2,547	2,038	483	0	26	0	0	0	0
Department of Defense, total development <sup>b</sup>	132,344	5,538	126,806	0	0	0	0	0	0

FFRDC = federally funded research and development center.

<sup>a</sup> Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.<sup>b</sup> Department of Defense (DOD) development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FY 1994–96). Geographic data for these categories are not reported; therefore, this table shows only total development.

NOTES: Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented 98% of total federal R&D obligations in FY 2006. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 91. Federal obligations for R&D plant, by state and other locations and selected agency: FY 2006  
(Dollars in thousands)

State/location	Total	DHS	DOC	DOD	DOE	DOI	DOT	HHS	NASA	NSF	USDA
All locations	2,093,055	131,767	74,553	63,273	778,153	5,482	18,718	360,886	38,966	448,665	172,592
Alabama	6,362	364	0	0	0	0	0	5,134	0	744	120
Alaska	4,764	0	0	4,684	0	0	0	0	0	30	50
Arizona	3,599	1,990	0	0	0	0	0	700	0	832	77
Arkansas	1,693	0	0	0	0	0	0	1,050	0	558	85
California	427,695	24,043	0	35,903	293,972	0	0	1,313	28,059	34,832	9,573
Colorado	97,749	94	14,997	0	18,910	0	1,789	23,800	0	38,038	121
Connecticut	4,329	1,957	0	0	200	0	0	293	0	1,854	25
Delaware	20	17	0	0	0	0	0	0	3	0	0
District of Columbia	105,848	13,213	0	0	0	0	0	700	160	91,775	0
Florida	1,589	238	0	303	0	0	0	0	174	874	0
Georgia	128,677	7,659	0	0	0	0	0	120,115	0	767	136
Hawaii	5,556	0	0	0	0	0	0	0	0	1,967	3,589
Idaho	7,000	236	0	0	4,364	0	0	0	0	1,223	1,177
Illinois	84,578	6,841	0	0	69,833	0	0	0	9	4,306	3,589
Indiana	2,722	150	0	0	70	0	0	0	0	2,502	0
Iowa	62,271	0	0	0	2,729	0	0	0	0	1,330	58,212
Kansas	264	0	0	0	0	0	0	0	0	264	0
Kentucky	7,233	184	0	0	0	0	0	0	0	119	6,930
Louisiana	36,733	0	0	0	0	0	0	5,675	29	2,075	28,954
Maine	3,757	138	0	0	0	0	0	143	0	1,000	2,476
Maryland	250,535	14,311	46,685	7,881	0	3,240	0	171,486	117	3,226	3,589
Massachusetts	49,142	6,338	0	30	1,422	0	0	18,515	0	22,837	0
Michigan	3,513	318	0	0	0	0	0	0	0	3,192	3
Minnesota	839	409	0	0	0	0	0	0	0	140	290
Mississippi	20,463	0	0	0	0	0	0	0	7,187	1,360	11,916
Missouri	6,340	164	0	0	0	0	0	1,470	0	1,018	3,688
Montana	6,541	0	0	0	0	0	0	0	0	0	6,541
Nebraska	706	0	0	0	0	0	0	0	0	706	0
Nevada	40,855	1,873	0	0	38,567	0	0	0	0	415	0
New Hampshire	3,972	2,716	0	0	0	0	0	0	0	549	707
New Jersey	56,924	1,575	12,871	0	20,654	0	16,929	0	268	4,627	0
New Mexico	110,781	8,307	0	0	100,045	2,242	0	0	0	187	0
New York	100,771	1,858	0	0	77,882	0	0	647	0	13,207	7,177
North Carolina	4,050	922	0	0	190	0	0	698	0	2,044	196
North Dakota	298	0	0	0	0	0	0	0	0	298	0
Ohio	17,002	1,709	0	11,152	0	0	0	700	10	1,119	2,312
Oklahoma	897	73	0	0	0	0	0	0	135	689	0
Oregon	2,826	0	0	0	1,000	0	0	858	0	764	204
Pennsylvania	17,393	292	0	0	10,980	0	0	700	2,180	3,191	50
Rhode Island	1,014	357	0	0	0	0	0	0	0	657	0
South Carolina	3,474	406	0	0	0	0	0	529	0	534	2,005
South Dakota	462	0	0	0	0	0	0	0	0	462	0
Tennessee	111,810	12,143	0	120	96,466	0	0	700	0	2,381	0
Texas	42,069	864	0	0	300	0	0	5,010	200	35,626	69
Utah	498	48	0	240	0	0	0	0	0	0	210
Vermont	263	27	0	0	0	0	0	0	0	0	236
Virginia	128,977	14,918	0	1,293	7,623	0	0	0	435	104,708	0
Washington	29,987	4,942	0	0	15,579	0	0	650	0	4,303	4,513
West Virginia	20,671	0	0	0	17,367	0	0	0	0	0	3,304
Wisconsin	65,097	73	0	0	0	0	0	0	0	54,630	10,394
Wyoming	363	0	0	0	0	0	0	0	0	363	0

TABLE 91. Federal obligations for R&amp;D plant, by state and other locations and selected agency: FY 2006

(Dollars in thousands)

State/location	Total	DHS	DOC	DOD	DOE	DOI	DOT	HHS	NASA	NSF	USDA
Outlying areas	416	0	0	0	0	0	0	0	0	342	74
Puerto Rico	416	0	0	0	0	0	0	0	0	342	74
Offices abroad	1,667	0	0	1,667	0	0	0	0	0	0	0

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

NOTES: Only 11 agencies are required to report data for this section of survey (Environmental Protection Agency reported zero R&D plant obligations in FY 2006). Obligations of these 11 agencies represented 99% of total federal R&D plant obligations in FY 2006. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2006–08  
(Dollars in thousands)

Agency	Total intramural R&D (2006)	Preliminary							
		Personnel costs (2006)		Total intramural R&D (2007)	Personnel costs (2007)		Total intramural R&D (2008)	Personnel costs (2008)	
		Amount	% of total		Amount	% of total		Amount	% of total
All agencies	25,563,183	7,528,595	29	25,550,751	7,748,968	30	25,047,797	7,741,822	31
Departments									
Department of Agriculture	1,432,471	830,840	58	1,414,776	809,161	57	1,397,862	813,923	58
Agricultural Marketing Service	6,164	40	1	6,455	3,030	47	6,628	40	1
Agricultural Research Service	1,011,805	541,518	54	959,715	513,640	54	978,981	523,950	54
Animal and Plant Health Inspection Service	17,559	10,276	59	24,495	10,794	44	28,845	12,711	44
Cooperative State Research, Education, and Extension Service	37,997	23,845	63	42,397	24,041	57	38,969	25,177	65
Economic Research Service	66,555	47,463	71	68,787	48,292	70	74,047	52,544	71
Foreign Agricultural Service	214	214	100	214	214	100	214	214	100
Forest Service	277,725	195,000	70	298,536	197,000	66	254,601	186,000	73
Grain Inspection, Packers, and Stockyards Administration	7,112	5,690	80	6,676	5,341	80	7,876	6,301	80
National Agricultural Statistics Service	6,240	5,694	91	6,401	5,709	89	6,601	5,886	89
Rural Business-Cooperative Service	1,100	1,100	100	1,100	1,100	100	1,100	1,100	100
Department of Commerce	622,426	355,873	57	682,343	370,056	54	729,067	381,827	52
Economic Development Administration	11	11	100	12	12	100	0	0	-
National Institute of Standards and Technology	303,650	187,824	62	342,633	199,960	58	365,877	220,576	60
National Oceanic and Atmospheric Administration	289,960	146,793	51	310,776	148,912	48	329,749	140,841	43
National Telecommunications and Information Administration	6,680	6,680	100	7,134	7,134	100	7,134	7,134	100
U.S. Census Bureau	22,125	14,565	66	21,788	14,038	64	26,307	13,276	50
Department of Defense	13,405,961	2,510,434	19	13,694,231	2,783,132	20	13,086,076	2,704,915	21
Defense agencies and activities	2,809,372	716,931	26	3,305,078	892,316	27	3,403,433	926,477	27
Chemical and Biological Defense	358,594	102,901	29	331,257	94,676	29	620,856	180,733	29
Defense Advanced Research Projects Agency	208,702	155,554	75	292,687	226,941	78	288,411	220,878	77
Defense Business Transformation Agency	12,340	3,500	28	66,221	NA	-	79,407	NA	-
Defense Contract Management Agency	1,085	271	25	522	130	25	564	141	25
Defense Information Systems Agency	85,776	10,532	12	95,126	16,527	17	93,888	10,094	11
Defense Logistics Agency	90,501	1,908	2	103,312	2,512	2	53,522	1,012	2
Defense Security Service	1	NA	-	2	NA	-	2	NA	-
Defense Technical Information Center	40,844	26,678	65	42,120	28,019	67	46,988	29,135	62
Defense Threat Reduction Agency	133,751	13,376	10	94,395	9,441	10	101,264	10,128	10
Joint Staff	79,948	NA	-	68,089	NA	-	69,925	NA	-
Missile Defense Agency	1,186,449	232,486	20	1,385,652	307,215	22	1,142,225	253,012	22
Office of the Secretary of Defense <sup>a</sup>	534,897	161,320	30	739,515	197,106	27	853,664	215,551	25
Special Operations Command	76,484	8,405	11	86,180	9,749	11	52,717	5,793	11
Department of the Air Force	1,522,568	461,770	30	1,657,546	466,694	28	1,586,899	433,187	27
Materiel Command	1,307,949	445,170	34	1,451,249	450,845	31	1,336,358	416,157	31

TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2006–08  
(Dollars in thousands)

Agency	Total intramural R&D (2006)	Personnel costs (2006)		Total intramural R&D (2007)	Personnel costs (2007)		Preliminary		
		Amount	% of total		Total intramural R&D (2008)	Personnel costs (2008)			
						Amount	% of total		
Space Command	214,619	16,600	8	206,297	15,849	8	250,541	17,030	7
Department of the Army	3,350,146	1,245,584	37	2,865,485	1,329,751	46	2,712,801	1,263,062	47
Department of the Navy	5,667,769	79,020	1	5,809,400	87,182	2	5,326,254	75,007	1
Operational Test and Evaluation, Director	56,106	7,129	13	56,722	7,189	13	56,689	7,182	13
Department of Education	13,822	9,783	71	13,987	9,965	71	16,432	11,509	70
Department of Energy	530,288	96,372	18	575,366	106,629	19	743,704	104,927	14
Bonneville Power Administration	10,734	20	*	11,003	30	*	8,896	30	*
Civilian Radioactive Waste Management	6,771	1	*	1	1	100	1	1	100
Electricity Delivery and Energy Restoration	4,221	4,221	100	2	2	100	2	2	100
Energy Efficiency and Renewable Energy	168,268	24,378	14	258,515	37,453	14	250,749	36,328	14
Environmental Management	2	2	100	2	2	100	2	2	100
Fossil Energy	122,734	67,736	55	123,956	69,127	56	122,673	68,550	56
National Nuclear Security Administration	196,499	6	*	121,734	6	*	288,555	6	*
Defense Programs	184,761	2	*	110,517	2	*	277,338	2	*
Naval Reactors	1	1	100	1	1	100	1	1	100
Nonproliferation and Verification	11,737	3	*	11,216	3	*	11,216	3	*
Nuclear Energy	2	2	100	2	2	100	2	2	100
Office of Science	21,057	6	*	60,151	6	*	72,824	6	*
Department of Health and Human Services	5,722,677	1,872,731	33	5,727,220	1,881,812	33	5,744,221	1,945,153	34
Administration for Children and Families	275	275	100	281	281	100	287	287	100
Administration on Aging	73	73	100	0	0	-	0	0	-
Agency for Healthcare Research and Quality	75,440	36,949	49	75,445	35,961	48	78,019	37,487	48
Agency for Toxic Substances and Disease Registry	4,709	4,702	100	2,612	2,612	100	4,764	3,934	83
Centers for Disease Control and Prevention	196,497	165,275	84	192,808	162,006	84	192,808	162,006	84
Centers for Medicare and Medicaid Services	20	10	50	20	10	50	20	10	50
Food and Drug Administration	114,081	91,265	80	113,449	90,759	80	109,672	87,738	80
Health Resources and Services Administration	3,274	3,144	96	3,205	3,075	96	3,222	3,092	96
National Institutes of Health	5,321,557	1,571,022	30	5,333,012	1,587,093	30	5,349,041	1,650,584	31
Office of the Secretary	6,750	15	*	6,388	15	*	6,388	15	*
Office of the Assistant Secretary, Planning and Evaluation	6,750	15	*	6,388	15	*	6,388	15	*
Substance Abuse and Mental Health Services Administration	1	1	100	0	0	-	0	0	-
Department of Homeland Security	595,939	127,572	21	196,261	48,557	25	148,754	39,333	26
Science and Technology Directorate	581,640	116,328	20	182,380	36,476	20	134,570	26,914	20
Transportation Security Administration	2	2	100	1	1	100	0	0	-
U.S. Coast Guard	13,379	10,324	77	13,000	11,200	86	13,300	11,535	87
U.S. Secret Service	918	918	100	880	880	100	884	884	100

TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2006–08  
(Dollars in thousands)

Agency	Total intramural R&D (2006)	Personnel costs (2006)		Total intramural R&D (2007)	Preliminary Personnel costs (2007)		Total intramural R&D (2008)	Personnel costs (2008)	
		Amount	% of total		Amount	% of total		Amount	% of total
Department of Housing and Urban Development	21,156	16,000	76	23,453	17,600	75	25,535	19,200	75
Department of the Interior	510,820	314,946	62	499,682	311,957	62	500,951	307,818	61
Bureau of Reclamation	2,806	776	28	2,725	926	34	2,881	980	34
Geological Survey	496,136	307,493	62	487,421	304,978	63	487,600	300,664	62
Minerals Management Service	10,652	6,185	58	9,536	6,053	63	10,470	6,174	59
National Park Service <sup>b</sup>	1,226	492	40	0	0	-	0	0	-
Department of Justice	53,618	4,486	8	88,198	4,640	5	39,476	4,241	11
Bureau of Prisons	2,085	1,647	79	2,141	1,691	79	2,205	1,742	79
Federal Bureau of Investigation	34,295	2,689	8	70,847	2,799	4	22,911	2,349	10
Office of Justice Programs	17,238	150	1	15,210	150	1	14,360	150	1
Department of Labor	17,826	12,970	73	23,047	12,445	54	22,148	12,968	59
Bureau of Labor Statistics	9,500	8,400	88	8,700	7,800	90	8,900	8,200	92
Employee Benefits Security Administration	973	973	100	958	958	100	978	978	100
Employment and Training Administration	3,057	2	*	8,853	2	*	7,631	2	*
Occupational Safety and Health Administration	3,500	2,809	80	3,724	2,883	77	3,810	2,969	78
Office of the Secretary	250	240	96	250	240	96	250	240	96
Pension Benefit Guaranty Corporation	546	546	100	562	562	100	579	579	100
Department of State	719	719	100	738	738	100	757	757	100
Department of Transportation	248,394	86,549	35	264,615	88,230	33	286,798	98,475	34
Federal Aviation Administration	71,808	45,436	63	75,681	45,720	60	80,340	49,271	61
Federal Highway Administration	106,222	17,821	17	118,756	18,248	15	122,438	18,749	15
Federal Motor Carrier Safety Administration	3,365	2,115	63	2,115	2,115	100	2,277	2,277	100
Federal Railroad Administration	18,320	2,608	14	19,494	3,175	16	20,201	3,342	17
Federal Transit Administration	1,088	1,088	100	709	709	100	966	966	100
National Highway Traffic Safety Administration	36,806	10,674	29	36,806	10,674	29	42,047	12,194	29
Office of the Secretary	6,722	3,753	56	4,910	4,080	83	9,115	4,390	48
Pipeline and Hazardous Materials Safety Administration	1,947	1,070	55	1,842	1,070	58	1,791	1,201	67
Research and Innovative Technology Administration	2,116	1,984	94	4,302	2,439	57	7,623	6,085	80
Department of the Treasury	56,401	46,799	83	57,890	47,261	82	64,828	49,455	76
Bureau of Engraving and Printing	6,004	216	4	8,080	294	4	8,888	331	4
Internal Revenue Service	48,997	45,383	93	48,810	46,267	95	54,940	48,424	88
U.S. Mint	1,400	1,200	86	1,000	700	70	1,000	700	70
Department of Veterans Affairs	411,624	210,071	51	413,603	211,080	51	410,625	210,231	51
Other agencies									
Agency for International Development	31,425	19,510	62	31,425	19,510	62	31,425	19,510	62
Appalachian Regional Commission	54	54	100	54	54	100	55	55	100
Broadcasting Board of Governors	33	33	100	0	0	-	0	0	



TABLE 92. Federal obligations for research and development to intramural performers for personnel costs, by agency: FY 2006–08  
(Dollars in thousands)

				Preliminary						
		Total intramural R&D (2006)	Personnel costs (2006)		Total intramural R&D (2007)	Personnel costs (2007)		Total intramural R&D (2008)	Personnel costs (2008)	
Agency			Amount	% of total		Amount	% of total		Amount	% of total
Environmental Protection Agency		495,577	218,408	44	441,295	219,079	50	430,400	224,803	52
Federal Communications Commission		7,415	5,358	72	9,402	5,621	60	6,773	4,665	69
Federal Trade Commission		1,606	1,020	64	1,684	1,069	63	1,974	1,253	63
Library of Congress		7,304	672	9	7,048	748	11	4,424	561	13
National Aeronautics and Space Administration		1,201,082	693,268	58	1,195,765	695,774	58	1,159,384	678,691	59
National Archives and Records Administration		120	100	83	120	100	83	120	100	83
National Science Foundation		33,851	2	*	35,752	2	*	38,618	2	*
Nuclear Regulatory Commission		17,931	16,200	90	19,713	18,078	92	18,340	17,640	96
Smithsonian Institution		119,000	77,400	65	128,000	83,200	65	136,000	88,400	65
Social Security Administration		3,643	425	12	5,083	2,470	49	3,050	1,410	46

\* = amount greater than 0 but less than 0.5%. NA = not available; data are not collected in this category for this agency.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 93. Federal obligations for basic research to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency	Total intramural basic research (2006)	Personnel costs (2006)		Total intramural basic research (2007)	Personnel costs (2007)		Preliminary		
		Amount	% of total		Total intramural basic research (2008)	Personnel costs (2008)			
						Amount	% of total		
All agencies	4,763,604	1,731,629	36	4,888,721	1,771,452	36	4,911,220	1,788,098	36
Departments									
Department of Agriculture	639,712	362,316	57	625,051	349,686	56	615,854	351,207	57
Agricultural Research Service	495,785	265,344	54	470,260	251,683	54	479,700	256,735	54
Cooperative State Research, Education, and Extension Service	17,021	10,611	62	18,869	10,698	57	17,429	11,204	64
Economic Research Service	7,500	4,746	63	7,519	4,829	64	8,254	5,254	64
Foreign Agricultural Service	60	60	100	60	60	100	60	60	100
Forest Service	117,457	79,950	68	126,407	80,770	64	108,417	76,260	70
National Agricultural Statistics Service	1,889	1,605	85	1,936	1,646	85	1,994	1,694	85
Department of Commerce	63,312	35,569	56	80,966	38,395	47	91,434	43,259	47
National Institute of Standards and Technology	63,312	35,569	56	80,966	38,395	47	91,434	43,259	47
Department of Defense	330,158	97,670	30	416,531	135,905	33	433,098	112,569	26
Defense agencies and activities	22,919	11,458	50	29,246	14,042	48	64,207	24,224	38
Chemical and Biological Defense	15,187	5,387	35	17,910	5,372	30	53,374	16,013	30
Defense Advanced Research Projects Agency	6,646	4,985	75	10,661	7,996	75	10,484	7,863	75
Defense Threat Reduction Agency	0	0	-	1	NA	-	1	NA	-
Office of the Secretary of Defense <sup>a</sup>	1,086	1,086	100	674	674	100	348	348	100
Department of the Air Force	36,633	27,222	74	71,047	29,814	42	64,704	442	1
Materiel Command	36,633	27,222	74	71,047	29,814	42	64,704	442	1
Department of the Army	124,397	58,990	47	146,806	88,262	60	143,290	84,102	59
Department of the Navy	146,209	NA	-	169,432	3,787	2	160,897	3,801	2
Department of Education	106	76	72	213	154	72	281	200	71
Department of Energy	23,110	138	1	66,070	121	*	78,878	140	*
Bonneville Power Administration	0	0	-	40	10	25	60	10	17
Energy Efficiency and Renewable Energy	452	66	15	217	32	15	329	48	15
Fossil Energy	65	65	100	72	72	100	75	75	100
National Nuclear Security Administration	1,536	1	*	5,590	1	*	5,590	1	*
Nonproliferation and Verification	1,536	1	*	5,590	1	*	5,590	1	*
Office of Science	21,057	6	*	60,151	6	*	72,824	6	*
Department of Health and Human Services	3,002,841	888,012	30	3,000,848	894,802	30	2,989,153	924,108	31
Health Resources and Services Administration	2,584	2,584	100	2,500	2,500	100	2,500	2,500	100
National Institutes of Health	3,000,257	885,428	30	2,998,348	892,302	30	2,986,653	921,608	31
Department of Homeland Security	27,455	5,491	20	19,375	3,875	20	14,296	2,859	20
Science and Technology Directorate	27,455	5,491	20	19,375	3,875	20	14,296	2,859	20
Department of the Interior	37,602	28,205	75	37,385	27,954	75	34,279	24,880	73
Geological Survey	37,602	28,205	75	37,385	27,954	75	34,279	24,880	73
Department of Justice	1,708	25	1	1,710	25	1	1,710	25	1

TABLE 93. Federal obligations for basic research to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency	Total intramural basic research (2006)	Personnel costs (2006)		Preliminary					
		Amount	% of total	Total intramural basic research (2007)	Personnel costs (2007)		Total intramural basic research (2008)	Personnel costs (2008)	
					Amount	% of total		Amount	% of total
Office of Justice Programs	1,708	25	1	1,710	25	1	1,710	25	1
Department of Labor	700	600	86	800	700	88	1,000	700	70
Bureau of Labor Statistics	700	600	86	800	700	88	1,000	700	70
Department of Transportation	1,574	1,574	100	0	0	-	0	0	-
Federal Highway Administration	1,574	1,574	100	0	0	-	0	0	-
Department of the Treasury	270	43	16	382	59	15	420	66	16
Bureau of Engraving and Printing	270	43	16	382	59	15	420	66	16
Department of Veterans Affairs	181,093	92,756	51	181,964	93,202	51	180,654	93,202	52
Other agencies									
Agency for International Development	3,240	1,800	56	3,240	1,800	56	3,240	1,800	56
Environmental Protection Agency	83,169	36,649	44	74,255	36,864	50	72,799	38,024	52
National Aeronautics and Space Administration	215,712	103,304	48	217,513	104,709	48	220,845	106,658	48
National Science Foundation	32,842	1	*	34,418	1	*	37,279	1	*
Smithsonian Institution	119,000	77,400	65	128,000	83,200	65	136,000	88,400	65

\* = amount greater than 0 but less than 0.5%. NA = not available; data are not collected in this category for this agency.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency				Preliminary					
	Total intramural applied research (2006)	Personnel costs (2006)		Total intramural applied research (2007)	Personnel costs (2007)		Total intramural applied research (2008)	Personnel costs (2008)	
		Amount	% of total		Amount	% of total		Amount	% of total
All agencies	7,497,980	3,286,641	44	7,454,766	3,321,355	45	7,633,080	3,367,120	44
Departments									
Department of Agriculture	629,936	376,796	60	623,199	369,737	59	615,365	371,570	60
Agricultural Marketing Service	6,164	40	1	6,455	3,030	47	6,628	40	1
Agricultural Research Service	414,839	222,022	54	393,484	210,593	54	401,383	214,820	54
Cooperative State Research, Education, and Extension Service	20,976	13,234	63	23,528	13,343	57	21,540	13,973	65
Economic Research Service	59,055	42,717	72	61,268	43,463	71	65,793	47,290	72
Foreign Agricultural Service	154	154	100	154	154	100	154	154	100
Forest Service	116,185	87,750	76	126,069	88,650	70	106,284	83,700	79
Grain Inspection, Packers, and Stockyards Administration	7,112	5,690	80	6,676	5,341	80	7,876	6,301	80
National Agricultural Statistics Service	4,351	4,089	94	4,465	4,063	91	4,607	4,192	91
Rural Business-Cooperative Service	1,100	1,100	100	1,100	1,100	100	1,100	1,100	100
Department of Commerce	500,296	285,641	57	524,649	298,845	57	556,737	306,004	55
Economic Development Administration	11	11	100	12	12	100	0	0	-
National Institute of Standards and Technology	233,031	146,737	63	247,624	157,002	63	266,694	174,533	65
National Oceanic and Atmospheric Administration	254,572	127,115	50	264,081	129,944	49	277,878	120,507	43
National Telecommunications and Information Administration	6,680	6,680	100	7,134	7,134	100	7,134	7,134	100
U.S. Census Bureau	6,002	5,098	85	5,798	4,753	82	5,031	3,830	76
Department of Defense	1,390,496	600,121	43	1,531,642	652,323	43	1,529,767	672,064	44
Defense agencies and activities	213,334	77,334	36	219,057	105,197	48	358,873	146,893	41
Chemical and Biological Defense	55,880	18,490	33	46,650	19,440	42	211,243	64,774	31
Defense Advanced Research Projects Agency	64,134	48,101	75	98,800	74,100	75	91,826	68,870	75
Defense Threat Reduction Agency	82,839	8,284	10	55,781	5,578	10	34,521	3,452	10
Office of the Secretary of Defense <sup>a</sup>	7,024	2,079	30	14,774	5,744	39	18,152	9,453	52
Special Operations Command	3,457	380	11	3,052	335	11	3,131	344	11
Department of the Air Force	511,492	294,568	58	576,210	303,827	53	544,544	303,016	56
Materiel Command	511,492	294,568	58	576,210	303,827	53	544,544	303,016	56
Department of the Army	413,626	228,219	55	452,054	243,299	54	400,132	222,155	56
Department of the Navy	252,044	NA	-	284,321	NA	-	226,218	NA	-
Department of Education	8,430	5,911	70	8,081	5,694	70	9,548	6,624	69
Department of Energy	308,394	34,587	11	274,374	39,217	14	452,688	41,597	9
Bonneville Power Administration	9,755	10	*	8,479	10	*	6,660	10	*
Civilian Radioactive Waste Management	6,771	1	*	1	1	100	1	1	100
Electricity Delivery and Energy Restoration	2,955	2,955	100	1	1	100	1	1	100

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency	Total intramural			Preliminary					
	Total intramural applied research (2006)	Personnel costs (2006)		Total intramural applied research (2007)	Personnel costs (2007)		Total intramural applied research (2008)	Personnel costs (2008)	
		Amount	% of total		Amount	% of total		Amount	% of total
Energy Efficiency and Renewable Energy	82,121	11,897	14	133,764	19,379	14	143,291	20,760	14
Environmental Management	1	1	100	1	1	100	1	1	100
Fossil Energy	34,971	19,720	56	33,908	19,822	58	31,722	20,821	66
National Nuclear Security Administration	171,819	2	*	98,219	2	*	271,011	2	*
Defense Programs	163,518	1	*	93,093	1	*	265,885	1	*
Nonproliferation and Verification	8,301	1	*	5,126	1	*	5,126	1	*
Nuclear Energy	1	1	100	1	1	100	1	1	100
Department of Health and Human Services	2,694,340	959,223	36	2,700,875	961,513	36	2,728,701	994,678	36
Administration for Children and Families	275	275	100	281	281	100	287	287	100
Administration on Aging	73	73	100	0	0	-	0	0	-
Agency for Healthcare Research and Quality	49,946	11,455	23	49,949	10,465	21	51,653	11,121	22
Agency for Toxic Substances and Disease Registry	4,709	4,702	100	2,612	2,612	100	4,764	3,934	83
Centers for Disease Control and Prevention	196,497	165,275	84	192,808	162,006	84	192,808	162,006	84
Centers for Medicare and Medicaid Services	20	10	50	20	10	50	20	10	50
Food and Drug Administration	114,081	91,265	80	113,449	90,759	80	109,672	87,738	80
Health Resources and Services Administration	689	559	81	704	574	82	721	591	82
National Institutes of Health	2,321,300	685,594	30	2,334,664	694,791	30	2,362,388	728,976	31
Office of the Secretary	6,750	15	*	6,388	15	*	6,388	15	*
Office of the Assistant Secretary, Planning and Evaluation	6,750	15	*	6,388	15	*	6,388	15	*
Department of Homeland Security	182,711	40,313	22	65,136	17,086	26	49,529	14,074	28
Science and Technology Directorate	177,332	35,466	20	59,931	11,986	20	44,220	8,844	20
Transportation Security Administration	1	1	100	0	0	-	0	0	-
U.S. Coast Guard	4,460	3,928	88	4,325	4,220	98	4,425	4,346	98
U.S. Secret Service	918	918	100	880	880	100	884	884	100
Department of Housing and Urban Development	7,866	6,000	76	8,720	6,600	76	9,494	7,200	76
Department of the Interior	433,203	274,376	63	411,366	264,374	64	418,040	265,990	64
Bureau of Reclamation	982	272	28	954	324	34	1,008	343	34
Geological Survey	420,451	267,456	64	400,876	257,997	64	406,562	259,473	64
Minerals Management Service	10,652	6,185	58	9,536	6,053	63	10,470	6,174	59
National Park Service <sup>b</sup>	1,118	463	41	0	0	-	0	0	-
Department of Justice	6,136	829	14	6,013	850	14	5,193	874	17
Bureau of Prisons	986	779	79	1,013	800	79	1,043	824	79
Office of Justice Programs	5,150	50	1	5,000	50	1	4,150	50	1
Department of Labor	13,770	12,038	87	13,156	11,403	87	13,235	11,916	90
Bureau of Labor Statistics	8,800	7,800	89	7,900	7,100	90	7,900	7,500	95
Employee Benefits Security Administration	973	973	100	958	958	100	978	978	100

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency	Total intramural			Preliminary					
	applied research (2006)	Personnel costs (2006)		Total intramural research (2007)	Personnel costs (2007)		Total intramural research (2008)	Personnel costs (2008)	
		Amount	% of total		Amount	% of total		Amount	% of total
Employment and Training Administration	32	1	3	103	1	1	69	1	1
Occupational Safety and Health Administration	3,500	2,809	80	3,724	2,883	77	3,810	2,969	78
Office of the Secretary	250	240	96	250	240	96	250	240	96
Pension Benefit Guaranty Corporation	215	215	100	221	221	100	228	228	100
Department of State	719	719	100	738	738	100	757	757	100
Department of Transportation	187,473	58,470	31	207,708	66,980	32	225,783	74,965	33
Federal Aviation Administration	58,152	31,855	55	67,203	37,367	56	70,169	39,228	56
Federal Highway Administration	70,060	10,522	15	80,527	12,263	15	85,338	13,340	16
Federal Motor Carrier Safety Administration	3,365	2,115	63	2,115	2,115	100	2,277	2,277	100
Federal Railroad Administration	17,668	1,956	11	19,081	2,762	14	18,798	1,939	10
Federal Transit Administration	234	234	100	275	275	100	291	291	100
National Highway Traffic Safety Administration	36,806	10,674	29	36,806	10,674	29	42,047	12,194	29
Pipeline and Hazardous Materials Safety Administration	519	519	100	519	519	100	631	631	100
Research and Innovative Technology Administration	669	595	89	1,182	1,005	85	6,232	5,065	81
Department of the Treasury	54,057	45,448	84	55,553	46,355	83	62,358	48,523	78
Bureau of Engraving and Printing	5,060	65	1	6,743	88	1	7,418	99	1
Internal Revenue Service	48,997	45,383	93	48,810	46,267	95	54,940	48,424	88
Department of Veterans Affairs	210,787	107,245	51	211,800	107,760	51	210,275	106,984	51
Other agencies									
Agency for International Development	24,165	14,695	61	24,165	14,695	61	24,165	14,695	61
Appalachian Regional Commission	54	54	100	54	54	100	55	55	100
Broadcasting Board of Governors	33	33	100	0	0	-	0	0	-
Environmental Protection Agency	319,325	140,742	44	284,044	141,012	50	276,407	144,371	52
Federal Communications Commission	6,968	5,283	76	7,232	5,544	77	6,308	4,587	73
Federal Trade Commission	1,606	1,020	64	1,684	1,069	63	1,974	1,253	63
Library of Congress	3,339	51	2	315	77	24	345	79	23
National Aeronautics and Space Administration	491,173	300,320	61	468,012	288,780	62	413,507	259,109	63
National Archives and Records Administration	120	100	83	120	100	83	120	100	83

TABLE 94. Federal obligations for applied research to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency				Preliminary					
	Total intramural applied research (2006)	Personnel costs (2006)		Total intramural applied research (2007)	Personnel costs (2007)		Total intramural applied research (2008)	Personnel costs (2008)	
		Amount	% of total		Amount	% of total		Amount	% of total
National Science Foundation	1,009	1	*	1,334	1	*	1,339	1	*
Nuclear Regulatory Commission	17,931	16,200	90	19,713	18,078	92	18,340	17,640	96
Social Security Administration	3,643	425	12	5,083	2,470	49	3,050	1,410	46

\* = amount greater than 0 but less than 0.5%. NA = not available; data are not collected in this category for this agency.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency	Total intramural development (2006)	Personnel costs (2006)		Total intramural development (2007)	Personnel costs (2007)		Preliminary			
		Amount	% of total		Total intramural development (2008)	Personnel costs (2008)				
						Amount	% of total	Amount	% of total	
All agencies	13,301,599	2,510,323	19	13,207,264	2,656,159	20	12,503,497	2,586,602	21	
Departments										
Department of Agriculture	162,823	91,728	56	166,526	89,738	54	166,643	91,146	55	
Agricultural Research Service	101,181	54,152	54	95,971	51,364	54	97,898	52,395	54	
Animal and Plant Health Inspection Service	17,559	10,276	59	24,495	10,794	44	28,845	12,711	44	
Forest Service	44,083	27,300	62	46,060	27,580	60	39,900	26,040	65	
Department of Commerce	58,818	34,663	59	76,728	32,816	43	80,896	32,564	40	
National Institute of Standards and Technology	7,307	5,518	76	14,043	4,563	32	7,749	2,784	36	
National Oceanic and Atmospheric Administration	35,388	19,678	56	46,695	18,968	41	51,871	20,334	39	
U.S. Census Bureau	16,123	9,467	59	15,990	9,285	58	21,276	9,446	44	
Department of Defense	11,685,307	1,812,641	16	11,746,058	1,994,902	17	11,123,211	1,920,280	17	
Defense agencies and activities	2,573,119	628,139	24	3,056,775	773,076	25	2,980,353	755,359	25	
Chemical and Biological Defense	287,527	79,024	27	266,697	69,864	26	356,239	99,946	28	
Defense Advanced Research Projects Agency	137,922	102,468	74	183,226	144,845	79	186,101	144,145	77	
Defense Business Transformation Agency	12,340	3,500	28	66,221	NA	-	79,407	NA	-	
Defense Contract Management Agency	1,085	271	25	522	130	25	564	141	25	
Defense Information Systems Agency	85,776	10,532	12	95,126	16,527	17	93,888	10,094	11	
Defense Logistics Agency	90,501	1,908	2	103,312	2,512	2	53,522	1,012	2	
Defense Security Service	1	NA	-	2	NA	-	2	NA	-	
Defense Technical Information Center	40,844	26,678	65	42,120	28,019	67	46,988	29,135	62	
Defense Threat Reduction Agency	50,912	5,092	10	38,613	3,862	10	66,742	6,675	10	
Joint Staff	79,948	NA	-	68,089	NA	-	69,925	NA	-	
Missile Defense Agency	1,186,449	232,486	20	1,385,652	307,215	22	1,142,225	253,012	22	
Office of the Secretary of Defense <sup>a</sup>	526,787	158,155	30	724,067	190,688	26	835,164	205,750	25	
Special Operations Command	73,027	8,025	11	83,128	9,414	11	49,586	5,449	11	
Department of the Air Force	974,443	139,980	14	1,010,289	133,053	13	977,651	129,729	13	
Materiel Command	759,824	123,380	16	803,992	117,204	15	727,110	112,699	15	
Space Command	214,619	16,600	8	206,297	15,849	8	250,541	17,030	7	
Department of the Army	2,812,123	958,375	34	2,266,625	998,190	44	2,169,379	956,805	44	
Department of the Navy	5,269,516	79,018	1	5,355,647	83,394	2	4,939,139	71,205	1	
Operational Test and Evaluation, Director	56,106	7,129	13	56,722	7,189	13	56,689	7,182	13	
Department of Defense advanced technology	1,905,944	409,135	21	1,648,139	485,136	29	1,499,190	494,899	33	
Defense agencies and activities	661,841	200,132	30	855,665	273,019	32	1,044,699	321,890	31	
Chemical and Biological Defense	107,284	32,528	30	118,247	34,334	29	234,254	66,009	28	
Defense Advanced Research Projects Agency	100,713	76,757	76	155,485	118,502	76	148,892	113,477	76	
Defense Logistics Agency	62,736	1,858	3	74,255	2,500	3	41,522	1,011	2	
Defense Threat Reduction Agency	50,911	5,091	10	38,612	3,861	10	66,741	6,674	10	
Missile Defense Agency	26,870	4,451	17	33,678	5,611	17	37,865	6,150	16	



TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency	Total intramural development (2006)	Personnel costs (2006)		Total intramural development (2007)	Personnel costs (2007)		Preliminary			
		Amount	% of total		Total intramural development (2008)	Personnel costs (2008)		Amount	% of total	
Office of the Secretary of Defense <sup>a</sup>	293,862	77,308	26	415,294	106,003	26	510,009	127,974	25	
Special Operations Command	19,465	2,139	11	20,094	2,208	11	5,416	595	11	
Department of the Air Force	160,890	63,837	40	192,930	59,923	31	147,038	50,234	34	
Materiel Command	160,890	63,837	40	192,930	59,923	31	147,038	50,234	34	
Department of the Army	844,263	145,164	17	374,217	152,192	41	279,376	122,773	44	
Department of the Navy	238,950	2	*	225,327	2	*	28,077	2	*	
Department of Defense major systems	9,779,363	1,403,505	14	10,097,919	1,509,765	15	9,624,021	1,425,379	15	
Defense agencies and activities	1,911,278	428,006	22	2,201,110	500,056	23	1,935,654	433,467	22	
Chemical and Biological Defense	180,243	46,496	26	148,450	35,530	24	121,985	33,937	28	
Defense Advanced Research Projects Agency	37,209	25,711	69	27,741	26,343	95	37,209	30,668	82	
Defense Business Transformation Agency	12,340	3,500	28	66,221	NA	-	79,407	NA	-	
Defense Contract Management Agency	1,085	271	25	522	130	25	564	141	25	
Defense Information Systems Agency	85,776	10,532	12	95,126	16,527	17	93,888	10,094	11	
Defense Logistics Agency	27,765	50	*	29,057	12	*	12,000	NA	-	
Defense Security Service	1	NA	-	2	NA	-	2	NA	-	
Defense Technical Information Center	40,844	26,678	65	42,120	28,019	67	46,988	29,135	62	
Defense Threat Reduction Agency	1	NA	-	1	NA	-	1	NA	-	
Joint Staff	79,948	NA	-	68,089	NA	-	69,925	NA	-	
Missile Defense Agency	1,159,579	228,035	20	1,351,974	301,604	22	1,104,360	246,862	22	
Office of the Secretary of Defense <sup>a</sup>	232,925	80,847	35	308,773	84,685	27	325,155	77,776	24	
Special Operations Command	53,562	5,886	11	63,034	7,206	11	44,170	4,854	11	
Department of the Air Force	813,553	76,143	9	817,359	73,130	9	830,613	79,495	10	
Materiel Command	598,934	59,543	10	611,062	57,281	9	580,072	62,465	11	
Space Command	214,619	16,600	8	206,297	15,849	8	250,541	17,030	7	
Department of the Army	1,967,860	813,211	41	1,892,408	845,998	45	1,890,003	834,032	44	
Department of the Navy	5,030,566	79,016	2	5,130,320	83,392	2	4,911,062	71,203	1	
Operational Test and Evaluation, Director	56,106	7,129	13	56,722	7,189	13	56,689	7,182	13	
Department of Education	5,286	3,796	72	5,693	4,117	72	6,603	4,685	71	
Department of Energy	198,784	61,647	31	234,922	67,291	29	212,138	63,190	30	
Bonneville Power Administration	979	10	1	2,484	10	*	2,176	10	*	
Electricity Delivery and Energy Restoration	1,266	1,266	100	1	1	100	1	1	100	
Energy Efficiency and Renewable Energy	85,695	12,415	14	124,534	18,042	14	107,129	15,520	14	
Environmental Management	1	1	100	1	1	100	1	1	100	
Fossil Energy	87,698	47,951	55	89,976	49,233	55	90,876	47,654	52	
National Nuclear Security Administration	23,144	3	*	17,925	3	*	11,954	3	*	
Defense Programs	21,243	1	*	17,424	1	*	11,453	1	*	
Naval Reactors	1	1	100	1	1	100	1	1	100	
Nonproliferation and Verification	1,900	1	*	500	1	*	500	1	*	
Nuclear Energy	1	1	100	1	1	100	1	1	100	

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency	Total intramural development (2006)	Personnel costs (2006)		Total intramural development (2007)	Personnel costs (2007)		Preliminary		
		Amount	% of total		Total intramural development (2008)	Personnel costs (2008)			
						Amount	% of total		
Department of Health and Human Services	25,496	25,496	100	25,497	25,497	100	26,367	26,367	100
Agency for Healthcare Research and Quality	25,494	25,494	100	25,496	25,496	100	26,366	26,366	100
Health Resources and Services Administration	1	1	100	1	1	100	1	1	100
Substance Abuse and Mental Health Services Administration	1	1	100	0	0	-	0	0	-
Department of Homeland Security	385,773	81,768	21	111,750	27,596	25	84,929	22,400	26
Science and Technology Directorate	376,853	75,371	20	103,074	20,615	20	76,054	15,211	20
Transportation Security Administration	1	1	100	1	1	100	0	0	-
U.S. Coast Guard	8,919	6,396	72	8,675	6,980	80	8,875	7,189	81
Department of Housing and Urban Development	13,290	10,000	75	14,733	11,000	75	16,041	12,000	75
Department of the Interior	40,015	12,365	31	50,931	19,629	39	48,632	16,948	35
Bureau of Reclamation	1,824	504	28	1,771	602	34	1,873	637	34
Geological Survey	38,083	11,832	31	49,160	19,027	39	46,759	16,311	35
National Park Service <sup>b</sup>	108	29	27	0	0	-	0	0	-
Department of Justice	45,774	3,632	8	80,475	3,765	5	32,573	3,342	10
Bureau of Prisons	1,099	868	79	1,128	891	79	1,162	918	79
Federal Bureau of Investigation	34,295	2,689	8	70,847	2,799	4	22,911	2,349	10
Office of Justice Programs	10,380	75	1	8,500	75	1	8,500	75	1
Department of Labor	3,356	332	10	9,091	342	4	7,913	352	4
Employment and Training Administration	3,025	1	*	8,750	1	*	7,562	1	*
Pension Benefit Guaranty Corporation	331	331	100	341	341	100	351	351	100
Department of Transportation	59,347	26,505	45	56,907	21,250	37	61,015	23,510	39
Federal Aviation Administration	13,656	13,581	99	8,478	8,353	99	10,171	10,043	99
Federal Highway Administration	34,588	5,725	17	38,229	5,985	16	37,100	5,409	15
Federal Railroad Administration	652	652	100	413	413	100	1,403	1,403	100
Federal Transit Administration	854	854	100	434	434	100	675	675	100
Office of the Secretary	6,722	3,753	56	4,910	4,080	83	9,115	4,390	48
Pipeline and Hazardous Materials Safety Administration	1,428	551	39	1,323	551	42	1,160	570	49
Research and Innovative Technology Administration	1,447	1,389	96	3,120	1,434	46	1,391	1,020	73
Department of the Treasury	2,074	1,308	63	1,955	847	43	2,050	866	42
Bureau of Engraving and Printing	674	108	16	955	147	15	1,050	166	16
U.S. Mint	1,400	1,200	86	1,000	700	70	1,000	700	70
Department of Veterans Affairs	19,744	10,070	51	19,839	10,118	51	19,696	10,045	51
Other agencies									
Agency for International Development	4,020	3,015	75	4,020	3,015	75	4,020	3,015	75
Environmental Protection Agency	93,083	41,017	44	82,996	41,203	50	81,194	42,408	52

TABLE 95. Federal obligations for development to intramural performers for personnel costs, by agency: FY 2006–08

(Dollars in thousands)

Agency	Total intramural development (2006)	Personnel costs (2006)		Preliminary					
		Amount	% of total	Total intramural development (2007)	Personnel costs (2007)		Total intramural development (2008)	Personnel costs (2008)	
					Amount	% of total		Amount	% of total
Federal Communications Commission	447	75	17	2,170	77	4	465	78	17
Library of Congress	3,965	621	16	6,733	671	10	4,079	482	12
National Aeronautics and Space Administration	494,197	289,644	59	510,240	302,285	59	525,032	312,924	60

\* = amount greater than 0 but less than 0.5%. NA = not available; data are not collected in this category for this agency.

<sup>a</sup> In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

<sup>b</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	53,214.2	56,556.6	61,476.4	64,151.1	63,676.4	65,719.0	68,385.8	68,328.3	68,694.4	68,007.6	70,892.7
Departments											
Department of Agriculture	994.0	1,049.7	1,129.8	1,196.7	1,269.4	1,382.8	1,453.4	1,486.9	1,504.3	1,438.3	1,464.4
Agricultural Cooperative Service	2.8	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na	na
Agricultural Marketing Service	1.4	1.6	1.5	2.7	3.7	4.3	4.7	4.6	5.0	4.5	4.5
Agricultural Research Service	526.5	540.4	579.7	603.4	622.9	686.5	732.6	735.3	758.4	739.9	770.4
Animal and Plant Health Inspection Service	4.9	6.2	7.7	14.0	15.7	16.7	17.1	19.2	19.1	19.5	19.8
Cooperative State Research, Education, and Extension Service	274.1	294.8	336.9	361.9	395.6	415.1	433.2	456.9	463.9	434.9	435.8
Economic Research Service	43.2	47.2	50.0	50.7	53.0	57.5	61.5	57.3	52.0	50.1	42.4
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.3	1.4
Forest Service	120.7	138.0	136.4	144.5	159.8	182.0	185.8	195.7	197.8	180.4	181.8
Grain Inspection, Packers, and Stockyards Administration	1.2	1.0	1.1	0.6	0.7	1.8	1.8	1.8	1.5	2.5	2.8
Human Nutrition Information Service	9.6	8.2	8.4	9.0	8.9	9.7	7.3	5.3	na	na	na
National Agricultural Statistics Service	3.5	3.6	2.8	2.7	3.2	3.5	3.9	3.6	4.2	3.7	3.0
Office of International Cooperation and Development	5.1	5.0	2.5	4.3	3.1	2.4	2.6	0.0	na	na	na
Office of Transportation	1.0	1.1	na	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	2.4	1.6	1.4	2.5
Department of Commerce	311.1	389.4	403.2	441.5	500.7	643.4	652.0	810.3	886.4	945.1	1,037.6
Economic Development Administration	7.2	2.7	1.3	1.5	1.0	1.1	0.7	0.3	1.0	0.6	0.6
National Institute of Standards and Technology	102.1	111.4	121.5	120.3	144.1	160.6	189.8	237.8	350.4	404.9	473.3
National Oceanic and Atmospheric Administration	189.2	263.5	269.1	306.7	345.3	472.2	452.4	562.9	523.6	528.5	530.9
National Telecommunications and Information Administration	7.8	6.1	6.2	6.2	3.6	4.0	4.2	3.9	6.4	4.5	27.8
Office of the Secretary	0.3	0.1	0.1	*	*	*	*	*	*	0.0	0.0
U.S. Census Bureau	4.5	5.6	5.0	6.7	6.6	5.5	5.0	5.4	5.1	6.6	5.1
Department of Defense	33,611.8	34,573.0	36,869.1	37,140.0	33,447.2	34,631.7	34,525.9	35,179.2	34,001.9	35,501.6	35,699.0
Defense agencies and activities	4,995.8	5,690.3	6,501.3	6,853.6	6,685.3	7,450.3	6,689.7	8,125.3	7,112.1	7,198.7	7,182.6
Department of the Air Force	14,101.0	14,774.5	15,390.5	14,888.1	13,043.8	12,532.3	12,287.9	12,799.2	12,051.8	13,474.4	14,912.1
Department of the Army	5,009.7	4,899.6	5,241.3	5,797.1	5,724.5	6,295.2	6,125.3	5,797.8	5,137.3	4,954.4	4,889.9
Department of the Navy	9,422.1	9,081.9	9,559.5	9,453.5	7,902.0	8,115.0	9,187.5	8,213.3	9,454.1	9,605.0	8,417.1
Operational Test and Evaluation, Director	4.4	7.2	31.6	32.0	22.3	9.4	12.3	11.9	12.4	22.1	21.5
Test and Evaluation, Deputy Under Secretary of Defense	78.8	119.6	145.0	115.8	69.4	229.4	223.2	231.8	234.3	247.1	275.8
Department of Education	138.3	142.9	155.7	150.7	117.2	135.5	186.7	179.2	180.6	172.0	169.1
Department of Energy	5,432.7	5,743.7	6,039.0	6,365.3	6,827.1	7,232.7	7,668.3	6,896.5	7,016.3	6,656.1	6,485.3
Department of Health and Human Services	5,751.0	6,923.2	7,773.4	8,363.8	9,822.1	9,091.5	10,475.2	10,352.5	11,245.2	10,419.0	11,457.7

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Administration for Children and Families	na	na	na	na	110.2	35.1	19.3	11.3	12.0	11.9	12.7
Administration on Aging	na	na	na	na	20.6	20.2	20.9	19.1	20.7	2.9	4.0
Agency for Healthcare Research and Quality	na	na	na	5.3	11.9	113.5	87.6	111.0	133.0	80.0	110.0
Alcohol, Drug Abuse, and Mental Health Administration	476.1	554.8	695.7	842.7	1,460.6	na	na	na	na	na	na
Centers for Disease Control and Prevention	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	306.0
Centers for Medicare and Medicaid Services	36.1	31.4	32.5	14.4	21.7	63.9	69.5	72.3	72.9	75.4	66.3
Food and Drug Administration	85.6	91.3	96.0	95.0	143.5	150.0	174.2	160.5	147.9	138.8	165.9
Health Resources and Services Administration	9.2	10.0	10.5	11.9	11.0	10.5	11.0	17.8	14.4	11.9	13.8
Human Development Services	51.1	50.9	73.3	76.7	na	na	na	na	na	na	na
National Institutes of Health	4,985.2	6,060.2	6,699.0	7,181.1	7,890.4	8,491.4	9,893.3	9,725.7	10,511.5	9,779.8	10,687.0
Office of the Assistant Secretary for Health	23.5	20.0	26.0	22.3	18.2	21.7	15.8	0.7	0.6	na	na
Office of the Secretary	8.2	4.7	7.8	5.0	8.8	5.0	5.2	5.0	3.5	5.0	22.9
Office of Public Health and Science	na	na	na	na	na	na	na	na	na	2.0	1.9
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	na	na	na	3.0	21.0
Social Security Administration	9.8	11.1	14.8	13.9	11.9	33.4	15.9	22.2	11.3	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	na	na	na	16.7	69.1
Department of Housing and Urban Development	19.7	14.9	20.7	21.7	18.1	23.5	28.4	28.5	38.0	36.2	31.7
Department of the Interior	394.7	419.6	485.3	503.0	556.2	628.4	651.8	644.9	558.8	547.2	572.6
Bureau of Land Management	3.6	3.7	3.0	2.8	8.8	6.3	8.9	0.0	0.0	0.0	0.0
Bureau of Mines	91.2	87.6	92.6	96.7	97.7	113.9	111.8	107.9	0.0	na	na
Bureau of Reclamation	10.6	4.4	4.2	5.8	8.7	12.2	9.6	7.4	8.0	6.5	6.8
Geological Survey	211.2	238.6	300.9	301.3	319.5	370.3	385.2	375.5	359.3	498.6	517.2
Minerals Management Service	1.0	1.2	1.9	2.0	2.7	4.1	6.1	19.5	20.8	21.7	22.6
National Biological Service	na	na	na	na	na	na	0.0	110.3	151.0	na	na
National Park Service	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0
Office of Surface Mining Reclamation and Enforcement	1.0	1.0	0.7	0.8	1.0	0.3	0.4	0.0	0.0	0.0	0.0
Office of the Secretary	2.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1	*	0.0	0.0
U.S. Fish and Wildlife Service	55.7	63.3	62.2	73.3	89.7	89.3	91.3	0.0	0.0	0.0	0.0
Department of Justice	39.0	48.1	36.0	38.2	40.4	42.9	46.2	42.0	49.0	72.7	75.5
Bureau of Prisons	6.9	6.0	3.8	3.2	5.7	5.9	6.1	5.4	5.7	5.2	4.6
Drug Enforcement Administration	2.2	2.5	2.7	2.4	2.8	1.5	1.1	1.7	0.4	1.2	*
Federal Bureau of Investigation	6.9	12.7	6.5	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5
Immigration and Naturalization Service	0.4	5.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
Office of Justice Programs	22.4	21.6	22.5	24.0	20.7	24.1	27.2	27.6	31.5	32.6	35.0
Office of Legal Policy	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	20.3	31.8	28.9	45.2	45.6	70.8	57.8	60.7	51.7	50.1	39.1
Bureau of Labor Statistics	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	13.1	13.3	12.6
Employee Benefits Security Administration	1.0	2.6	1.3	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Employment and Training Administration	4.4	11.2	9.2	25.6	23.7	51.0	39.2	41.8	23.1	24.6	18.2
Employment Standards Administration	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.3	0.4	0.3	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.2	4.3	6.6	5.4
Office of the Secretary	2.7	6.1	6.1	7.1	8.7	5.7	5.4	5.2	6.2	2.6	0.2
Pension Benefit Guaranty Corporation	0.3	0.3	0.3	0.5	0.5	0.9	1.3	0.7	1.4	0.6	0.7
Department of State	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	1.0	0.6
Department of Transportation	347.7	332.1	291.5	287.3	361.0	411.1	455.3	536.9	661.4	593.0	548.4
Federal Aviation Administration	190.5	190.2	153.5	185.5	216.0	250.7	260.1	258.9	270.8	265.8	236.0
Federal Highway Administration	76.3	60.1	76.5	44.0	86.1	81.2	87.5	178.5	260.6	236.5	218.0
Federal Railroad Administration	10.9	10.6	7.0	7.0	14.3	21.5	22.8	19.6	22.8	20.0	18.1
Federal Transit Administration	9.4	1.4	2.0	2.3	2.1	1.5	16.5	18.5	33.4	22.4	19.5
Maritime Administration	7.2	2.6	0.0	0.9	1.5	1.7	1.7	1.7	2.3	0.0	0.0
National Highway Traffic Safety Administration	28.9	45.2	28.5	16.9	19.2	24.5	28.3	26.9	41.4	15.0	23.0
Office of the Secretary	4.7	5.2	4.2	6.9	4.7	5.0	4.4	2.5	4.0	2.8	2.0
Research and Special Programs Administration	2.1	2.0	1.6	2.4	2.2	2.3	1.7	4.1	4.9	7.0	8.4
U.S. Coast Guard	17.8	14.9	18.1	21.4	14.9	22.8	32.2	26.1	21.1	23.4	23.3
Department of the Treasury	26.4	25.8	23.5	25.2	30.4	24.5	16.6	20.7	61.5	60.2	59.8
Bureau of Engraving and Printing	4.5	2.0	1.7	2.1	3.5	2.0	3.2	3.4	1.8	1.7	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	1.8	1.5	1.5	0.0	0.0	0.0	0.0
Internal Revenue Service	14.1	14.0	14.0	16.3	17.3	17.3	6.5	11.3	49.7	51.2	50.8
Office of Thrift Supervision	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5	0.6
U.S. Customs Service	7.1	9.3	6.9	6.3	3.8	2.3	4.1	4.6	8.6	6.3	6.3
U.S. Mint	0.1	0.2	0.3	0.1	0.5	0.0	*	0.4	0.3	0.0	*
U.S. Secret Service	0.5	0.4	0.6	0.5	0.4	0.6	0.6	0.5	0.6	0.5	0.4
Department of Veterans Affairs	198.8	201.9	186.4	219.0	221.6	207.6	250.8	246.0	258.3	240.6	243.2
Other agencies											
Advisory Commission on Intergovernmental Relations	1.6	1.4	1.2	1.2	1.2	1.5	2.1	1.4	1.4	na	na
Agency for International Development	263.2	229.1	279.1	334.0	344.0	205.9	321.7	372.6	256.8	251.0	206.4
Appalachian Regional Commission	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9
Consumer Product Safety Commission	2.1	1.2	1.3	1.2	1.3	1.2	1.2	0.4	0.4	0.1	0.1
Environmental Protection Agency	325.9	340.0	343.2	388.5	400.1	411.9	497.7	558.3	495.5	476.3	537.0
Federal Communications Commission	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1
Federal Trade Commission	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7
General Services Administration	1.6	2.3	0.5	0.7	3.6	20.9	7.6	5.5	1.3	4.1	1.6
Library of Congress	6.5	7.1	8.0	8.4	8.6	10.0	10.7	12.5	7.7	11.0	2.5
National Aeronautics and Space Administration	3,564.3	4,230.4	5,506.1	6,762.2	7,675.0	8,386.6	8,885.4	8,576.8	9,116.2	8,094.0	9,715.0
National Archives and Records Administration	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3	0.1	0.1	0.1
National Science Foundation	1,459.9	1,550.7	1,613.4	1,563.0	1,687.1	1,813.6	1,841.7	1,983.6	1,977.0	2,212.0	2,318.0

TABLE 96. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Nuclear Regulatory Commission	124.4	113.5	113.2	111.5	107.5	116.5	119.6	92.4	88.8	75.2	67.5
Office of Thrift Supervision	3.4	3.4	4.1	4.1	na	na	na	na	na	na	na
Smithsonian Institution	71.5	74.8	82.6	95.4	98.5	95.4	97.2	127.4	125.0	125.0	126.0
Social Security Administration	na	na	na	na	na	na	na	na	na	11.5	13.6
Tennessee Valley Authority	76.9	86.9	61.7	66.7	72.3	103.5	109.6	97.9	93.1	6.1	8.9
U.S. Arms Control and Disarmament Agency	4.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2
U.S. Information Agency	10.0	1.5	1.0	0.0	0.2	0.2	0.2	0.6	0.3	0.1	0.2
U.S. International Trade Commission	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had outlays in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 97. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	72,466.1	72,613.9	74,077.1	79,692.2	85,100.8	93,938.6	98,551.2	110,305.1	107,439.1	110,928.3	109,625.1
Departments											
Department of Agriculture	1,538.6	1,612.8	1,659.6	1,869.5	2,026.1	2,043.4	2,161.4	2,281.5	2,369.5	2,358.7	2,299.8
Agricultural Marketing Service	4.2	4.4	4.8	4.7	5.2	4.7	8.4	9.4	6.3	6.5	6.6
Agricultural Research Service	782.1	847.4	886.8	1,014.6	1,131.4	1,100.0	1,192.9	1,248.7	1,305.7	1,208.1	1,144.5
Animal and Plant Health Inspection Service	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	25.5	26.8	31.7
Cooperative State Research, Education, and Extension Service	474.2	464.8	425.4	478.9	487.6	503.1	506.8	563.5	586.0	677.3	655.8
Economic Research Service	55.0	57.8	63.9	66.1	69.9	70.3	65.7	74.6	72.8	77.0	84.0
Food Safety Inspection Service	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	0.9	0.9	0.9
Forest Service	190.6	206.0	244.0	263.0	292.0	321.0	345.0	343.0	354.5	346.1	360.5
Grain Inspection, Packers, and Stockyards Administration	2.7	2.7	3.6	6.1	6.0	5.3	6.7	6.7	7.1	6.7	7.9
National Agricultural Statistics Service	3.3	3.6	3.6	4.3	4.6	5.5	6.1	6.1	6.5	6.7	6.9
Rural Business-Cooperative Service	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	2.6	1.1
Department of Commerce	1,036.6	1,036.1	1,086.3	1,015.8	1,232.6	1,248.2	1,156.6	747.5	710.2	656.1	706.6
Economic Development Administration	0.6	0.6	0.6	0.6	0.4	0.5	0.2	0.5	0.2	1.1	0.0
National Institute of Standards and Technology	482.3	456.0	433.6	474.2	532.2	536.6	558.1	478.5	467.1	467.7	495.5
National Oceanic and Atmospheric Administration	519.6	547.2	597.1	501.0	651.3	667.8	550.0	242.1	215.5	158.6	177.9
National Telecommunications and Information Administration	25.5	20.3	23.0	21.0	26.0	23.5	24.2	3.5	5.3	6.7	7.1
U.S. Census Bureau	8.6	12.0	32.0	19.0	22.7	19.9	24.2	23.0	22.0	22.0	26.0
Department of Defense	35,530.3	33,814.9	31,468.8	33,220.6	34,447.2	39,453.6	42,686.0	53,596.6	52,348.1	54,746.3	53,301.5
Defense agencies and activities	8,047.4	6,207.4	5,611.3	7,287.9	10,479.1	11,879.0	11,140.8	17,133.7	14,005.4	16,262.5	15,942.1
Department of the Air Force	14,246.2	13,972.6	11,729.1	10,229.7	6,576.6	7,754.5	9,242.1	10,025.8	9,976.3	10,608.7	10,513.8
Materiel Command	na	na	na	na	4,402.3	5,206.5	6,246.6	7,189.1	6,753.8	7,376.7	7,172.9
Space Command	na	na	na	na	2,174.3	2,548.0	2,995.5	2,836.7	3,222.5	3,232.0	3,340.9
Department of the Army	4,920.4	5,071.8	4,821.7	5,797.0	6,619.9	7,092.1	6,954.2	9,847.2	10,662.1	9,374.4	8,766.6
Department of the Navy	8,038.1	8,261.2	9,016.3	9,675.4	10,576.2	12,484.9	15,043.8	16,269.8	17,442.7	18,318.2	17,904.5
Operational Test and Evaluation, Director	27.8	44.7	32.9	205.3	195.5	243.1	305.0	320.1	261.6	182.4	174.4
Test and Evaluation, Deputy Under Secretary of Defense	250.4	257.3	257.4	25.3	na	na	na	na	na	na	na
Department of Education	192.0	201.6	222.4	251.0	243.1	315.6	226.9	264.3	254.5	612.2	354.2
Department of Energy	6,652.9	6,836.9	6,874.2	7,415.6	8,034.6	8,424.5	8,501.7	8,607.0	8,213.1	8,862.5	9,408.6
Bonneville Power Administration	NA	NA	NA	NA	22.9	23.3	24.0	11.3	10.7	11.0	8.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	62.5	75.8	74.1	74.1	52.9	12.4	28.9
Electricity Delivery and Energy Restoration	NA	NA	NA	NA	NA	NA	NA	71.8	108.3	94.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	739.8	688.5	603.6	593.9	456.7	768.7	648.7



TABLE 97. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Environmental Management	NA	NA	NA	NA	160.3	69.4	42.8	49.8	34.0	21.4	21.4
Fossil Energy	NA	NA	NA	NA	480.5	642.7	505.5	538.8	386.1	383.4	397.3
National Nuclear Security Administration	NA	NA	NA	NA	3,711.7	3,895.1	4,005.3	3,925.0	3,858.1	3,695.3	3,747.5
Defense Programs	NA	NA	NA	NA	2,770.0	2,996.7	3,135.1	3,001.3	2,865.2	2,703.3	2,752.6
Fissile Materials Disposition	NA	NA	NA	NA	22.0	16.6	1.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	654.4	658.3	706.0	778.3	749.6	778.9	781.8
Nonproliferation and Verification	NA	NA	NA	NA	265.4	223.5	163.3	145.5	243.3	213.0	213.0
Nuclear Energy	NA	NA	NA	NA	28.2	43.0	79.3	82.8	89.0	77.7	422.2
Office of Intelligence	NA	NA	NA	NA	5.2	4.0	0.0	0.0	0.0	0.0	0.0
Office of Science	NA	NA	NA	NA	2,823.4	2,982.7	3,167.0	3,259.6	3,217.3	3,798.6	4,052.0
Department of Health and Human Services	12,983.8	14,280.2	18,406.8	21,296.7	23,892.1	27,316.4	28,263.2	28,861.7	28,799.4	28,686.1	28,624.4
Administration for Children and Families	15.8	23.1	25.4	26.4	21.7	19.4	18.7	38.6	13.4	13.3	13.6
Administration on Aging	10.4	18.5	1.1	1.6	2.1	4.0	3.0	2.0	3.0	0.9	0.7
Agency for Healthcare Research and Quality	77.0	79.0	50.8	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	na	14.7	13.1	12.4	14.3	10.7	9.5	9.0	10.9	6.4
Centers for Disease Control and Prevention	343.6	433.3	439.0	544.0	521.0	564.0	539.8	510.8	688.5	602.9	534.2
Centers for Medicare and Medicaid Services	51.3	48.1	44.4	53.0	72.9	73.6	89.0	89.0	62.4	41.5	33.7
Food and Drug Administration	155.9	133.3	143.8	152.4	129.7	158.1	134.0	140.0	139.8	138.5	134.6
Health Resources and Services Administration	13.8	13.0	36.2	51.6	54.7	439.5	48.0	53.4	24.1	24.3	24.1
National Institutes of Health	12,035.6	13,226.0	17,134.8	19,771.3	22,343.5	25,964.6	27,311.8	27,926.0	27,778.1	27,828.3	27,851.8
Office of the Secretary	7.0	16.6	18.7	15.6	16.5	21.7	21.1	24.8	26.8	25.4	25.4
Office of Public Health and Science	2.0	2.6	2.0	1.7	1.6	1.8	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	5.0	13.9	16.7	13.9	14.9	19.9	21.1	24.8	26.8	25.4	25.4
Substance Abuse and Mental Health Services Administration	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	54.3	0.0	0.0
Department of Homeland Security	na	na	na	na	na	NA	592.3	1,027.6	1,713.9	1,148.1	844.9
Science and Technology Directorate	na	na	na	na	na	NA	432.4	834.7	1,677.0	1,128.0	827.5
Transportation Security Administration	na	na	na	na	na	NA	137.9	180.5	12.2	2.6	0.0
U.S. Coast Guard	na	na	na	na	na	NA	21.1	11.4	23.8	16.6	16.5
U.S. Secret Service	na	na	na	na	na	NA	1.0	1.0	1.0	0.9	0.9
Department of Housing and Urban Development	31.6	27.5	43.7	64.2	57.7	54.3	43.2	47.9	42.0	37.6	38.4
Department of the Interior	566.9	608.1	581.2	623.2	633.2	600.9	612.2	597.0	607.6	593.8	589.3
Bureau of Reclamation	8.8	10.3	9.8	9.7	10.4	11.0	16.3	17.3	11.1	10.5	13.4
Geological Survey	499.9	545.7	506.1	572.6	565.0	550.2	552.2	546.2	561.5	553.5	547.1
Minerals Management Service	28.4	29.7	30.5	28.0	31.7	29.5	29.5	29.9	31.2	29.7	28.8
National Park Service <sup>a</sup>	29.7	22.5	34.7	12.9	26.2	10.3	14.3	3.5	3.8	0.0	0.0
Department of Justice	73.2	85.3	42.8	67.4	67.7	103.2	68.7	66.1	71.4	103.8	58.4
Bureau of Prisons	8.1	9.3	6.6	12.0	8.7	9.7	9.4	12.5	12.1	11.5	11.3
Federal Bureau of Investigation	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8	22.9

TABLE 97. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Immigration and Naturalization Service	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na	na
Office of Justice Programs	29.3	39.5	25.7	35.5	25.4	50.7	25.3	20.1	25.0	21.4	24.2
Department of Labor	25.2	25.8	82.7	95.5	164.6	176.4	198.2	162.9	94.3	214.8	189.2
Bureau of Labor Statistics	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	22.6	22.8
Employee Benefits Security Administration	2.7	1.8	1.8	1.3	0.9	2.1	1.3	1.3	1.6	1.7	1.7
Employment and Training Administration	4.7	6.1	60.9	60.9	137.1	148.0	170.1	133.7	64.1	184.7	159.0
Occupational Safety and Health Administration	4.6	3.7	5.7	5.7	3.8	3.1	3.3	3.4	3.5	3.7	3.8
Office of the Secretary	0.2	1.0	1.3	5.4	1.2	1.8	0.2	0.4	0.3	0.3	0.3
Pension Benefit Guaranty Corporation	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.6	1.9	1.8	1.7
Department of State	0.5	1.0	0.9	1.6	1.6	1.6	2.3	2.6	3.4	3.6	4.0
Department of Transportation	537.3	523.9	449.6	515.4	732.9	592.0	569.4	412.1	884.3	939.3	910.6
Federal Aviation Administration	229.5	187.9	230.2	203.0	309.0	250.0	262.0	241.0	307.0	297.0	264.0
Federal Highway Administration	210.4	230.7	106.7	201.9	209.0	230.0	238.1	73.9	400.1	456.8	468.1
Federal Motor Carrier Safety Administration	na	na	0.4	5.5	2.0	2.9	4.3	6.6	4.2	2.0	4.0
Federal Railroad Administration	23.0	22.1	25.3	21.0	28.4	27.9	32.6	22.8	58.7	47.6	49.0
Federal Transit Administration	10.2	10.6	12.0	3.7	2.3	3.8	4.4	4.2	6.5	9.0	11.0
National Highway Traffic Safety Administration	33.3	40.3	40.5	46.7	47.1	50.7	7.0	31.7	75.0	88.0	90.0
Office of the Secretary	3.7	3.7	7.5	7.0	11.1	15.7	11.0	28.8	15.6	22.0	10.0
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	0.0	0.0	0.0	10.0	2.2	15.2	14.9	6.6
Research and Innovative Technology Administration	na	na	na	na	na	na	0.0	1.0	2.0	2.0	8.0
Research and Special Programs Administration	7.2	7.9	7.0	7.5	9.0	11.0	na	na	na	na	na
Transportation Security Administration	na	na	na	na	95.0	na	na	na	na	na	na
U.S. Coast Guard	20.1	20.7	20.0	19.3	20.0	na	na	na	na	na	na
Department of the Treasury	65.2	64.8	60.4	65.1	70.7	60.0	62.4	66.4	65.1	66.3	72.9
Bureau of Engraving and Printing	2.8	2.1	2.8	4.7	7.1	4.9	4.2	6.2	6.0	8.1	8.9
Internal Revenue Service	52.0	55.8	53.3	56.6	55.5	54.4	57.3	57.8	55.4	54.7	61.0
Office of Thrift Supervision	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na	na
U.S. Customs Service	9.2	5.4	1.9	2.2	7.1	na	na	na	na	na	na
U.S. Mint	0.1	0.8	1.3	0.8	*	0.7	1.0	2.4	3.7	3.5	3.0
U.S. Secret Service	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na	na
Department of Veterans Affairs	248.1	339.4	342.0	345.3	329.2	365.7	405.6	402.3	412.0	414.0	411.0
Other agencies											
Agency for International Development	212.0	203.0	179.0	195.0	202.0	220.0	254.0	260.4	255.0	255.0	255.0
Appalachian Regional Commission	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6
Broadcasting Board of Governors	na	na	0.1	*	0.3	0.0	1.2	*	0.2	0.0	0.0
Consumer Product Safety Commission	*	0.0	0.0	0.1	0.0	0.0	na	na	na	na	na
Environmental Protection Agency	524.0	593.0	492.0	550.0	561.0	550.0	0.2	0.5	0.2	0.4	0.4
Federal Communications Commission	3.0	4.5	2.8	2.7	4.4	4.5	8.5	8.8	7.6	9.9	6.8

TABLE 97. Federal outlays for research, development, and R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Federal Trade Commission	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.7	2.0
General Services Administration	0.0	0.0	0.1	0.6	*	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.6	2.1	2.2	1.8	2.8	3.0	1.2	6.3	7.4	13.0	7.6
National Aeronautics and Space Administration	9,741.0	9,752.0	9,291.0	9,167.0	9,142.0	8,719.9	8,746.3	8,656.6	6,209.6	6,520.1	6,846.1
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,302.0	2,399.0	2,616.0	2,762.0	3,074.0	3,507.0	3,796.0	4,025.0	4,102.0	4,364.0	4,354.0
Nuclear Regulatory Commission	54.3	48.0	47.0	40.0	47.0	38.0	55.0	57.0	59.0	62.0	59.0
Smithsonian Institution	115.5	88.5	95.5	95.5	103.5	100.5	106.0	110.0	139.0	159.0	179.0
Social Security Administration	17.4	53.3	28.8	28.9	27.9	36.8	30.4	35.1	67.8	99.4	100.7
Tennessee Valley Authority	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	na	na	na	na	na	na	na	na	na	na
U.S. Information Agency	0.2	0.1	na	na	na	na	na	na	na	na	na
U.S. International Trade Commission	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

<sup>a</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had outlays in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration (NASA) reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. In FY 2000, National Institutes of Health reclassified all of its development activities as research. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 98. Federal outlays for research and development, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	51,611.7	54,739.4	59,450.4	62,135.3	61,130.4	62,934.5	65,241.3	66,150.8	66,662.0	66,142.0	68,897.9
Departments											
Department of Agriculture	922.9	971.2	1,037.5	1,072.5	1,189.4	1,246.0	1,303.9	1,353.6	1,375.8	1,335.7	1,342.2
Agricultural Cooperative Service	2.8	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na	na
Agricultural Marketing Service	1.4	1.6	1.5	2.7	3.7	4.3	4.7	4.6	5.0	4.5	4.5
Agricultural Research Service	463.2	482.1	528.0	548.1	573.5	617.1	643.4	660.0	679.3	672.4	699.5
Animal and Plant Health Inspection Service	4.9	5.6	7.4	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.8
Cooperative State Research, Education, and Extension Service	267.1	277.3	298.3	303.9	380.1	354.9	379.4	404.1	418.8	403.8	386.5
Economic Research Service	43.2	47.2	50.0	50.7	53.0	57.5	61.5	57.3	52.0	50.1	42.4
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.9	1.3	1.4
Forest Service	119.9	135.8	134.7	139.6	144.7	174.8	179.3	190.8	193.5	177.9	179.8
Grain Inspection, Packers, and Stockyards Administration	1.2	1.0	1.1	0.6	0.7	1.8	1.8	1.8	1.5	2.5	2.8
Human Nutrition Information Service	9.6	8.2	8.4	9.0	8.9	9.7	7.3	5.3	na	na	na
National Agricultural Statistics Service	3.5	3.6	2.8	2.7	3.2	3.5	3.9	3.6	4.2	3.7	3.0
Office of International Cooperation and Development	5.1	5.0	2.5	4.3	3.1	2.4	2.6	0.0	na	na	na
Office of Transportation	1.0	1.1	na	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	2.4	1.6	1.4	2.5
Department of Commerce	307.0	378.6	394.0	426.8	485.1	622.1	629.6	797.4	863.0	918.1	967.1
Economic Development Administration	7.2	2.4	1.1	1.5	1.0	1.1	0.7	0.3	1.0	0.6	0.6
National Institute of Standards and Technology	100.0	101.3	113.0	112.3	135.9	149.1	180.1	225.2	327.4	378.0	424.4
National Oceanic and Atmospheric Administration	187.1	263.0	268.6	300.1	338.0	462.4	439.5	562.6	523.1	528.5	509.3
National Telecommunications and Information Administration	7.8	6.1	6.2	6.2	3.6	4.0	4.2	3.9	6.4	4.5	27.8
Office of the Secretary	0.3	0.1	0.1	*	*	*	*	*	*	0.0	0.0
U.S. Census Bureau	4.5	5.6	5.0	6.7	6.6	5.5	5.0	5.4	5.1	6.6	5.1
Department of Defense	33,254.4	34,156.8	36,453.4	36,703.2	33,013.5	34,220.8	34,152.7	34,918.2	33,920.9	35,387.0	35,646.6
Defense agencies and activities	4,958.4	5,622.1	6,409.5	6,765.0	6,621.8	7,358.7	6,628.0	8,084.7	7,099.7	7,170.3	7,177.3
Department of the Air Force	13,906.8	14,567.0	15,190.8	14,687.9	12,825.6	12,346.1	12,056.9	12,645.5	12,024.9	13,420.3	14,886.7
Department of the Army	4,949.0	4,837.8	5,201.6	5,750.2	5,659.5	6,273.2	6,118.3	5,794.0	5,133.0	4,948.7	4,885.2
Department of the Navy	9,357.1	9,003.1	9,475.0	9,352.3	7,815.0	8,004.0	9,114.0	8,150.5	9,416.6	9,578.5	8,400.2
Operational Test and Evaluation, Director	4.4	7.2	31.6	32.0	22.3	9.4	12.3	11.9	12.4	22.1	21.5
Test and Evaluation, Deputy Under Secretary of Defense	78.8	119.6	145.0	115.8	69.4	229.4	223.2	231.8	234.3	247.1	275.8
Department of Education	122.6	131.8	153.4	147.9	114.5	133.0	173.8	177.2	179.6	172.0	169.1
Department of Energy	4,711.3	4,964.7	5,200.6	5,508.4	5,727.2	6,034.7	6,185.1	5,974.7	6,152.2	5,846.2	5,678.6
Department of Health and Human Services	5,719.5	6,892.5	7,717.4	8,308.7	9,627.3	8,994.8	10,325.9	10,218.2	10,978.2	10,278.5	11,337.2

TABLE 98. Federal outlays for research and development, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Administration for Children and Families	na	na	na	na	110.2	35.1	19.3	11.3	12.0	11.9	12.7
Administration on Aging	na	na	na	na	20.6	20.2	20.9	19.1	20.7	2.9	4.0
Agency for Healthcare Research and Quality	na	na	na	5.3	11.9	113.5	87.6	111.0	133.0	80.0	110.0
Alcohol, Drug Abuse, and Mental Health Administration	475.5	554.8	695.7	842.7	1,460.6	na	na	na	na	na	na
Centers for Disease Control and Prevention	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	306.0
Centers for Medicare and Medicaid Services	36.1	31.4	32.5	14.4	21.7	63.9	69.5	72.3	72.9	75.4	66.3
Food and Drug Administration	83.7	89.6	94.0	94.0	125.0	135.7	154.5	138.6	131.3	133.3	157.3
Health Resources and Services Administration	9.2	10.0	10.5	11.9	11.0	10.1	9.6	16.4	12.8	11.2	13.1
Human Development Services	51.1	50.9	73.3	76.7	na	na	na	na	na	na	na
National Institutes of Health	4,956.2	6,031.2	6,645.0	7,127.0	7,714.0	8,409.2	9,765.1	9,614.8	10,262.8	9,645.6	10,575.9
Office of the Assistant Secretary for Health	23.5	20.0	26.0	22.3	18.2	21.7	15.8	0.7	0.6	na	na
Office of the Secretary	8.2	4.7	7.8	5.0	8.8	5.0	5.2	5.0	3.5	5.0	22.9
Office of Public Health and Science	na	na	na	na	na	na	na	na	na	2.0	1.9
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	na	na	na	3.0	21.0
Social Security Administration	9.8	11.1	14.8	13.9	11.9	33.4	15.9	22.2	11.3	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	na	na	na	16.7	69.1
Department of Housing and Urban Development	19.7	14.9	20.7	21.7	18.1	23.5	28.4	28.5	38.0	36.2	31.7
Department of the Interior	390.0	414.6	478.4	492.5	535.6	610.6	631.0	637.4	552.3	545.1	566.1
Bureau of Land Management	3.6	3.7	3.0	2.8	8.8	6.3	8.9	0.0	0.0	0.0	0.0
Bureau of Mines	91.2	87.6	90.6	93.6	96.3	113.9	111.8	107.9	0.0	na	na
Bureau of Reclamation	10.6	4.4	4.2	5.8	8.7	12.2	9.6	7.4	8.0	6.5	6.8
Geological Survey	210.4	237.9	299.5	300.0	316.6	365.9	381.2	369.1	354.1	497.6	512.5
Minerals Management Service	1.0	1.2	1.9	1.8	2.5	3.4	5.1	18.3	19.8	20.7	20.8
National Biological Service	na	na	na	na	na	na	0.0	110.3	150.7	na	na
National Park Service	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0
Office of Surface Mining Reclamation and Enforcement	1.0	1.0	0.7	0.8	1.0	0.3	0.4	0.0	0.0	0.0	0.0
Office of the Secretary	2.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1	*	0.0	0.0
U.S. Fish and Wildlife Service	51.7	59.0	58.8	67.3	73.6	76.6	75.5	0.0	0.0	0.0	0.0
Department of Justice	38.7	48.1	36.0	38.2	40.4	42.9	46.2	42.0	49.0	72.7	75.5
Bureau of Prisons	6.9	6.0	3.8	3.2	5.7	5.9	6.1	5.4	5.7	5.2	4.6
Drug Enforcement Administration	2.2	2.5	2.7	2.4	2.8	1.5	1.1	1.7	0.4	1.2	*
Federal Bureau of Investigation	6.6	12.7	6.5	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5
Immigration and Naturalization Service	0.4	5.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
Office of Justice Programs	22.4	21.6	22.5	24.0	20.7	24.1	27.2	27.6	31.5	32.6	35.0
Office of Legal Policy	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	20.3	31.8	28.9	45.2	45.6	70.8	57.8	60.7	51.7	50.1	39.1
Bureau of Labor Statistics	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	13.1	13.3	12.6
Employee Benefits Security Administration	1.0	2.6	1.3	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0

TABLE 98. Federal outlays for research and development, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Employment and Training Administration	4.4	11.2	9.2	25.6	23.7	51.0	39.2	41.8	23.1	24.6	18.2
Employment Standards Administration	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.3	0.4	0.3	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.2	4.3	6.6	5.4
Office of the Secretary	2.7	6.1	6.1	7.1	8.7	5.7	5.4	5.2	6.2	2.6	0.2
Pension Benefit Guaranty Corporation	0.3	0.3	0.3	0.5	0.5	0.9	1.3	0.7	1.4	0.6	0.7
Department of State	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	1.0	0.6
Department of Transportation	336.6	321.0	278.6	270.6	342.6	394.0	425.2	519.9	634.7	578.8	527.6
Federal Aviation Administration	180.1	179.6	141.0	169.2	199.6	234.9	234.5	247.2	256.8	259.8	218.0
Federal Highway Administration	76.0	60.1	76.5	44.0	86.1	81.2	87.1	174.7	249.6	230.4	215.6
Federal Railroad Administration	10.9	10.3	6.7	7.0	12.8	20.6	21.6	18.6	21.5	18.5	18.1
Federal Transit Administration	9.4	1.4	2.0	2.3	2.1	1.5	14.3	18.5	33.4	22.4	19.5
Maritime Administration	7.2	2.6	0.0	0.9	1.5	1.7	1.7	1.7	2.3	0.0	0.0
National Highway Traffic Safety Administration	28.4	45.2	28.5	16.9	19.2	24.5	28.3	26.9	41.4	15.0	23.0
Office of the Secretary	4.7	5.2	4.2	6.9	4.7	5.0	4.4	2.5	4.0	2.8	2.0
Research and Special Programs Administration	2.1	2.0	1.6	2.4	2.2	2.3	1.7	4.1	4.9	7.0	8.4
U.S. Coast Guard	17.8	14.6	18.1	21.0	14.5	22.4	31.7	25.5	20.6	22.8	22.9
Department of the Treasury	26.3	25.7	23.4	25.1	30.3	24.4	16.5	18.9	61.4	60.0	59.7
Bureau of Engraving and Printing	4.5	2.0	1.7	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	1.8	1.5	1.5	0.0	0.0	0.0	0.0
Internal Revenue Service	14.1	14.0	14.0	16.3	17.3	17.3	6.5	11.3	49.7	51.2	50.8
Office of Thrift Supervision	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5	0.6
U.S. Customs Service	7.0	9.2	6.8	6.2	3.7	2.2	4.0	4.5	8.5	6.2	6.1
U.S. Mint	0.1	0.2	0.3	0.1	0.5	0.0	*	0.4	0.3	0.0	*
U.S. Secret Service	0.5	0.4	0.6	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.4
Department of Veterans Affairs	195.1	197.3	184.9	206.6	213.4	202.1	246.0	240.8	251.1	232.1	234.9
Other agencies											
Advisory Commission on Intergovernmental Relations	1.6	1.4	1.2	1.2	1.2	1.5	2.1	1.4	1.4	na	na
Agency for International Development	248.7	216.6	279.1	334.0	344.0	205.9	321.7	372.6	256.8	251.0	206.4
Appalachian Regional Commission	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9
Consumer Product Safety Commission	2.1	1.2	1.3	1.2	1.3	1.2	1.2	0.4	0.4	0.1	0.1
Environmental Protection Agency	325.9	340.0	343.2	388.5	400.1	411.9	495.2	553.5	492.5	476.3	515.0
Federal Communications Commission	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1
Federal Trade Commission	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7
General Services Administration	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	6.5	7.1	8.0	8.4	8.6	10.0	10.7	12.5	7.7	11.0	2.5
National Aeronautics and Space Administration	3,250.4	3,831.7	4,974.8	6,324.3	7,071.2	7,616.5	8,087.0	8,023.3	8,600.7	7,614.0	9,273.0
National Archives and Records Administration	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3	0.1	0.1	0.1
National Science Foundation	1,410.0	1,494.0	1,556.7	1,524.9	1,630.6	1,732.7	1,754.2	1,873.0	1,876.0	2,054.0	2,000.0

TABLE 98. Federal outlays for research and development, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Nuclear Regulatory Commission	124.4	113.5	113.2	111.5	107.5	116.5	119.6	92.4	88.8	75.2	67.5
Office of Thrift Supervision	3.4	3.4	4.1	4.1	na	na	na	na	na	na	na
Smithsonian Institution	69.9	73.2	79.8	90.8	94.0	94.2	96.0	121.2	119.0	121.0	123.0
Social Security Administration	na	na	na	na	na	na	na	na	na	11.5	13.6
Tennessee Valley Authority	76.5	86.4	61.6	61.8	68.6	98.8	108.6	97.9	93.1	6.1	8.9
U.S. Arms Control and Disarmament Agency	3.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2
U.S. Information Agency	10.0	1.5	1.0	0.0	0.2	0.2	0.2	0.6	0.3	0.1	0.2
U.S. International Trade Commission	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had outlays in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 99. Federal outlays for research and development, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	70,631.9	70,585.2	69,807.4	75,335.7	80,712.5	89,780.7	94,695.6	106,473.5	105,398.0	108,813.8	107,746.4
Departments											
Department of Agriculture	1,379.5	1,446.2	1,551.2	1,754.3	1,919.1	1,966.3	2,048.2	2,132.1	2,185.0	2,185.9	2,144.1
Agricultural Marketing Service	4.2	4.4	4.8	4.7	5.2	4.7	8.4	9.4	6.3	6.5	6.6
Agricultural Research Service	687.1	733.5	790.4	912.3	1,039.4	1,039.0	1,098.7	1,117.3	1,134.7	1,056.4	1,009.3
Animal and Plant Health Inspection Service	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	25.5	26.8	31.7
Cooperative State Research, Education, and Extension Service	412.7	424.2	425.4	478.9	487.6	503.1	506.8	563.5	586.0	677.3	655.8
Economic Research Service	55.0	57.8	63.9	66.1	69.9	70.3	65.7	74.6	72.8	77.0	84.0
Food Safety Inspection Service	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	0.9	0.9	0.9
Forest Service	188.0	194.0	232.0	250.0	277.0	305.0	326.0	325.0	341.0	325.0	340.0
Grain Inspection, Packers, and Stockyards Administration	2.7	2.7	3.6	6.1	6.0	5.3	6.7	6.7	7.1	6.7	7.9
National Agricultural Statistics Service	3.3	3.6	3.6	4.3	4.6	5.5	6.1	6.1	6.5	6.7	6.9
Rural Business-Cooperative Service	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	2.6	1.1
Department of Commerce	994.1	999.8	1,065.6	966.5	1,113.7	1,155.2	1,076.4	707.7	664.2	611.8	655.0
Economic Development Administration	0.6	0.6	0.6	0.6	0.4	0.5	0.2	0.5	0.2	1.1	0.0
National Institute of Standards and Technology	439.8	419.6	412.8	424.9	413.3	459.2	508.8	440.6	421.1	423.5	444.0
National Oceanic and Atmospheric Administration	519.6	547.2	597.1	501.0	651.3	652.0	519.0	240.2	215.5	158.6	177.9
National Telecommunications and Information Administration	25.5	20.3	23.0	21.0	26.0	23.5	24.2	3.5	5.3	6.7	7.1
U.S. Census Bureau	8.6	12.0	32.0	19.0	22.7	19.9	24.2	23.0	22.0	22.0	26.0
Department of Defense	35,490.6	33,687.3	31,428.8	33,158.9	34,077.8	39,216.4	42,498.2	53,386.3	52,254.8	54,634.1	53,234.4
Defense agencies and activities	8,038.4	6,188.5	5,608.5	7,285.7	10,196.9	11,741.1	11,074.2	17,056.7	13,970.6	16,207.9	15,934.4
Department of the Air Force	14,242.5	13,899.4	11,726.8	10,219.9	6,571.2	7,747.7	9,232.4	9,990.1	9,937.6	10,567.4	10,472.1
Materiel Command	na	na	na	na	4,396.9	5,199.7	6,236.9	7,153.4	6,715.1	7,335.3	7,131.2
Space Command	na	na	na	na	2,174.3	2,548.0	2,995.5	2,836.7	3,222.5	3,232.0	3,340.9
Department of the Army	4,916.3	5,067.8	4,820.1	5,796.7	6,619.8	7,092.1	6,954.2	9,847.2	10,662.1	9,374.4	8,766.6
Department of the Navy	8,015.2	8,229.7	8,983.2	9,626.1	10,494.5	12,392.4	14,932.4	16,172.3	17,422.9	18,302.0	17,886.9
Operational Test and Evaluation, Director	27.8	44.7	32.9	205.3	195.5	243.1	305.0	320.1	261.6	182.4	174.4
Test and Evaluation, Deputy Under Secretary of Defense	250.4	257.3	257.4	25.3	na	na	na	na	na	na	na
Department of Education	192.0	201.6	222.4	251.0	243.1	315.6	226.9	264.3	254.5	612.2	354.2
Department of Energy	5,876.7	6,035.0	6,067.6	6,539.1	7,010.3	7,372.7	7,475.8	7,760.2	7,432.9	7,954.1	8,573.1
Bonneville Power Administration	NA	NA	NA	NA	22.9	23.3	24.0	11.3	10.7	11.0	8.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	62.5	75.8	74.1	74.1	52.9	12.4	28.9
Electricity Delivery and Energy Restoration	NA	NA	NA	NA	NA	NA	NA	71.8	108.3	94.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	734.9	682.3	583.9	569.1	430.6	661.6	641.7



TABLE 99. Federal outlays for research and development, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Environmental Management	NA	NA	NA	NA	160.3	69.4	42.8	49.8	34.0	21.4	21.4
Fossil Energy	NA	NA	NA	NA	471.3	639.8	499.5	532.7	365.6	371.3	396.6
National Nuclear Security Administration	NA	NA	NA	NA	3,299.4	3,448.3	3,579.4	3,624.9	3,547.6	3,458.0	3,610.8
Defense Programs	NA	NA	NA	NA	2,372.7	2,576.7	2,727.4	2,732.9	2,593.6	2,506.5	2,655.8
Fissile Materials Disposition	NA	NA	NA	NA	22.0	16.6	1.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	639.3	631.5	687.8	746.6	710.7	738.5	741.9
Nonproliferation and Verification	NA	NA	NA	NA	265.4	223.5	163.3	145.5	243.3	213.0	213.0
Nuclear Energy	NA	NA	NA	NA	28.2	43.0	79.3	82.8	89.0	77.7	392.2
Office of Intelligence	NA	NA	NA	NA	5.2	4.0	0.0	0.0	0.0	0.0	0.0
Office of Science	NA	NA	NA	NA	2,225.5	2,386.7	2,592.8	2,743.7	2,794.1	3,246.6	3,390.9
Department of Health and Human Services	12,826.9	14,056.8	18,187.1	21,002.4	23,647.8	26,499.3	27,834.6	28,432.3	28,440.6	28,412.1	28,478.1
Administration for Children and Families	15.8	23.1	25.4	26.4	21.7	19.4	18.7	38.6	13.4	13.3	13.6
Administration on Aging	10.4	18.5	1.1	1.6	2.1	4.0	3.0	2.0	3.0	0.9	0.7
Agency for Healthcare Research and Quality	77.0	79.0	50.8	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	na	na	14.7	13.1	12.4	14.3	10.7	9.5	9.0	10.9	6.4
Centers for Disease Control and Prevention	343.6	433.3	439.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2	534.2
Centers for Medicare and Medicaid Services	51.3	48.1	44.4	53.0	72.9	73.6	89.0	89.0	62.4	41.5	33.7
Food and Drug Administration	142.9	130.8	141.2	149.4	119.4	149.5	127.5	136.9	138.0	137.3	132.7
Health Resources and Services Administration	12.9	12.4	35.6	51.0	54.1	439.2	47.4	52.9	23.6	23.7	23.5
National Institutes of Health	11,892.5	13,005.7	16,918.3	19,480.7	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	27,624.9	27,707.9
Office of the Secretary	7.0	16.6	18.7	15.6	16.5	21.7	21.1	24.8	26.8	25.4	25.4
Office of Public Health and Science	2.0	2.6	2.0	1.7	1.6	1.8	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	5.0	13.9	16.7	13.9	14.9	19.9	21.1	24.8	26.8	25.4	25.4
Substance Abuse and Mental Health Services Administration	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	54.3	0.0	0.0
Department of Homeland Security	na	na	na	na	na	NA	535.9	966.4	1,592.7	1,033.7	760.7
Science and Technology Directorate	na	na	na	na	na	NA	377.0	774.5	1,556.1	1,014.6	744.3
Transportation Security Administration	na	na	na	na	na	NA	137.9	180.5	12.2	2.6	0.0
U.S. Coast Guard	na	na	na	na	na	NA	20.1	10.4	23.4	15.6	15.5
U.S. Secret Service	na	na	na	na	na	NA	1.0	1.0	1.0	0.9	0.9
Department of Housing and Urban Development	31.6	27.5	43.7	64.2	57.7	54.3	43.2	47.9	42.0	37.6	38.4
Department of the Interior	565.3	606.7	579.8	621.1	631.1	597.4	604.6	589.7	602.3	588.9	582.5
Bureau of Reclamation	8.8	10.3	9.8	9.7	10.4	9.5	10.9	12.7	8.8	8.5	9.0
Geological Survey	499.9	545.7	506.1	572.6	565.0	550.2	552.2	546.2	561.5	553.5	547.1
Minerals Management Service	26.8	28.2	29.1	25.9	29.6	27.4	27.2	27.2	28.1	26.9	26.4
National Park Service <sup>a</sup>	29.7	22.5	34.7	12.9	26.2	10.3	14.3	3.5	3.8	0.0	0.0
Department of Justice	73.2	85.3	42.8	67.4	67.7	103.2	68.7	66.1	71.4	103.8	58.4
Bureau of Prisons	8.1	9.3	6.6	12.0	8.7	9.7	9.4	12.5	12.1	11.5	11.3
Federal Bureau of Investigation	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8	22.9

TABLE 99. Federal outlays for research and development, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Immigration and Naturalization Service	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na	na
Office of Justice Programs	29.3	39.5	25.7	35.5	25.4	50.7	25.3	20.1	25.0	21.4	24.2
Department of Labor	25.2	25.8	82.7	95.5	164.6	176.4	198.2	162.9	94.3	214.8	189.2
Bureau of Labor Statistics	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	22.6	22.8
Employee Benefits Security Administration	2.7	1.8	1.8	1.3	0.9	2.1	1.3	1.3	1.6	1.7	1.7
Employment and Training Administration	4.7	6.1	60.9	60.9	137.1	148.0	170.1	133.7	64.1	184.7	159.0
Occupational Safety and Health Administration	4.6	3.7	5.7	5.7	3.8	3.1	3.3	3.4	3.5	3.7	3.8
Office of the Secretary	0.2	1.0	1.3	5.4	1.2	1.8	0.2	0.4	0.3	0.3	0.3
Pension Benefit Guaranty Corporation	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.6	1.9	1.8	1.7
Department of State	0.5	1.0	0.9	1.6	1.6	1.6	2.3	2.6	3.4	3.6	4.0
Department of Transportation	516.0	508.4	436.7	510.6	681.5	584.6	554.6	396.3	866.2	920.8	895.8
Federal Aviation Administration	210.5	173.7	217.6	199.0	295.0	244.0	248.0	226.0	290.0	280.0	251.0
Federal Highway Administration	209.3	230.7	106.7	201.9	209.0	230.0	238.1	73.9	400.1	456.8	468.1
Federal Motor Carrier Safety Administration	na	na	0.4	5.5	2.0	2.9	4.3	6.6	4.2	2.0	4.0
Federal Railroad Administration	22.0	21.1	25.3	20.4	27.3	26.5	31.8	22.0	57.6	46.1	47.2
Federal Transit Administration	10.2	10.6	12.0	3.7	2.3	3.8	4.4	4.2	6.5	9.0	11.0
National Highway Traffic Safety Administration	33.3	40.3	40.5	46.7	47.1	50.7	7.0	31.7	75.0	88.0	90.0
Office of the Secretary	3.7	3.7	7.5	7.0	11.1	15.7	11.0	28.8	15.6	22.0	10.0
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	0.0	0.0	0.0	10.0	2.2	15.2	14.9	6.6
Research and Innovative Technology Administration	na	na	na	na	na	na	0.0	1.0	2.0	2.0	8.0
Research and Special Programs Administration	7.2	7.9	7.0	7.5	9.0	11.0	na	na	na	na	na
Transportation Security Administration	na	na	na	na	59.0	na	na	na	na	na	na
U.S. Coast Guard	19.9	20.4	19.8	19.0	19.7	na	na	na	na	na	na
Department of the Treasury	65.1	64.7	60.3	65.1	70.7	60.0	62.4	66.4	65.1	66.3	72.9
Bureau of Engraving and Printing	2.8	2.1	2.8	4.7	7.1	4.9	4.2	6.2	6.0	8.1	8.9
Internal Revenue Service	52.0	55.8	53.3	56.6	55.5	54.4	57.3	57.8	55.4	54.7	61.0
Office of Thrift Supervision	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na	na
U.S. Customs Service	9.0	5.3	1.8	2.2	7.1	na	na	na	na	na	na
U.S. Mint	0.1	0.8	1.3	0.8	*	0.7	1.0	2.4	3.7	3.5	3.0
U.S. Secret Service	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na	na
Department of Veterans Affairs	246.9	339.1	341.7	345.0	328.8	365.4	405.2	402.0	411.6	413.6	410.6
Other agencies											
Agency for International Development	212.0	203.0	179.0	195.0	202.0	220.0	254.0	260.4	255.0	255.0	255.0
Appalachian Regional Commission	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6
Broadcasting Board of Governors	na	na	0.1	*	0.3	0.0	1.2	*	0.2	0.0	0.0
Consumer Product Safety Commission	*	0.0	0.0	0.1	0.0	0.0	na	na	na	na	na
Environmental Protection Agency	503.0	532.0	472.0	520.0	561.0	550.0	0.2	0.5	0.2	0.4	0.4
Federal Communications Commission	3.0	4.5	2.8	2.7	4.4	4.5	8.5	8.8	7.6	9.9	6.8

TABLE 99. Federal outlays for research and development, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Federal Trade Commission	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.7	2.0
Library of Congress	1.6	2.1	2.2	1.8	2.8	3.0	1.2	6.3	7.4	13.0	7.6
National Aeronautics and Space Administration	9,421.0	9,415.0	6,424.0	6,444.0	6,945.0	7,124.1	7,165.5	6,959.4	6,197.4	6,507.3	6,832.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,010.0	2,144.0	2,446.0	2,566.0	2,803.0	3,235.0	3,439.0	3,657.0	3,707.0	3,943.0	3,894.0
Nuclear Regulatory Commission	54.3	48.0	47.0	40.0	47.0	38.0	55.0	57.0	59.0	62.0	59.0
Smithsonian Institution	113.0	86.0	93.0	93.0	101.0	98.0	103.0	104.0	113.0	128.0	136.0
Social Security Administration	17.4	53.3	28.8	28.9	27.9	36.8	30.4	35.1	67.8	99.4	100.7
Tennessee Valley Authority	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	na	na	na	na	na	na	na	na	na	na
U.S. Information Agency	0.2	0.1	na	na	na	na	na	na	na	na	na
U.S. International Trade Commission	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

<sup>a</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had outlays in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration (NASA) reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 100. Federal outlays for R&amp;D plant, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	1,602.4	1,817.2	2,026.1	2,015.8	2,546.1	2,784.5	3,144.5	2,177.6	2,032.4	1,865.6	1,994.8
Departments											
Department of Agriculture	71.1	78.5	92.3	124.2	80.1	136.8	149.5	133.4	128.4	102.6	122.3
Agricultural Research Service	63.3	58.3	51.7	55.3	49.4	69.4	89.2	75.3	79.1	67.5	70.9
Animal and Plant Health Inspection Service	0.0	0.5	0.3	6.1	0.0	0.0	0.0	0.0	0.0	1.5	0.0
Cooperative State Research, Education, and Extension Service	7.0	17.5	38.6	58.0	15.5	60.2	53.8	52.8	45.1	31.1	49.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
Forest Service	0.8	2.2	1.7	4.9	15.1	7.2	6.5	4.9	4.3	2.5	2.0
Department of Commerce	4.2	10.9	9.1	14.7	15.5	21.3	22.4	12.9	23.5	26.9	70.5
Economic Development Administration	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	2.1	10.1	8.5	8.1	8.3	11.4	9.6	12.7	23.0	26.9	48.9
National Oceanic and Atmospheric Administration	2.1	0.5	0.5	6.6	7.3	9.9	12.8	0.3	0.5	0.0	21.6
Department of Defense	357.3	416.2	415.6	436.8	433.7	410.9	373.2	261.0	81.0	114.7	52.4
Defense agencies and activities	37.4	68.1	91.8	88.6	63.5	91.6	61.7	40.6	12.4	28.3	5.3
Department of the Air Force	194.3	207.5	199.7	200.2	218.2	186.3	231.0	153.7	26.9	54.2	25.4
Department of the Army	60.7	61.8	39.7	46.8	65.0	22.0	7.0	3.8	4.2	5.6	4.8
Department of the Navy	65.0	78.8	84.5	101.2	87.0	111.0	73.5	62.9	37.5	26.6	16.9
Department of Education	15.8	11.1	2.3	2.8	2.6	2.5	12.8	1.9	1.0	0.1	0.0
Department of Energy	721.3	779.0	838.3	856.9	1,099.8	1,198.0	1,483.2	921.8	864.1	809.9	806.7
Department of Health and Human Services	31.5	30.7	56.0	55.1	194.8	96.7	149.3	134.2	267.0	140.5	120.5
Alcohol, Drug Abuse, and Mental Health Administration	0.6	0.0	0.0	0.0	0.0	na	na	na	na	na	na
Food and Drug Administration	1.9	1.7	2.0	1.0	18.4	14.3	19.7	21.9	16.7	5.5	8.7
Health Resources and Services Administration	0.0	0.0	0.0	0.0	0.0	0.3	1.4	1.4	1.6	0.7	0.7
National Institutes of Health	29.0	29.0	54.0	54.1	176.4	82.1	128.2	110.9	248.8	134.3	111.1
Social Security Administration	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	na	na
Department of the Interior	4.8	5.1	6.8	10.5	20.7	17.8	20.8	7.5	6.5	2.1	6.6
Bureau of Mines	0.0	0.0	2.1	3.0	1.5	0.0	0.0	0.0	0.0	na	na
Geological Survey	0.8	0.8	1.4	1.3	2.9	4.4	4.0	6.3	5.3	1.1	4.8
Minerals Management Service	0.0	0.0	0.0	0.2	0.2	0.7	1.0	1.1	1.0	1.0	1.8
National Biological Service	na	na	na	na	na	na	0.0	0.1	0.3	na	na
U.S. Fish and Wildlife Service	4.0	4.3	3.4	6.0	16.1	12.7	15.8	0.0	0.0	0.0	0.0
Department of Justice	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	11.2	11.1	12.9	16.7	18.4	17.1	30.0	17.0	26.7	14.2	20.8
Federal Aviation Administration	10.4	10.5	12.6	16.3	16.5	15.9	25.6	11.7	14.0	6.0	18.0
Federal Highway Administration	0.3	0.0	0.0	0.0	0.0	0.0	0.4	3.8	10.9	6.1	2.5
Federal Railroad Administration	0.0	0.2	0.3	*	1.5	0.8	1.3	1.0	1.3	1.6	0.0
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0

TABLE 100. Federal outlays for R&amp;D plant, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
National Highway Traffic Safety Administration	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	0.0	0.3	0.0	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.3
Department of the Treasury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.9	0.2	0.2	0.1
Bureau of Engraving and Printing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
U.S. Secret Service	*	*	*	*	*	*	*	*	*	*	0.0
Department of Veterans Affairs	3.7	4.6	1.5	12.4	8.2	5.5	4.8	5.2	7.2	8.5	8.3
Other agencies											
Agency for International Development	14.4	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.8	3.0	0.0	22.0
General Services Administration	0.0	0.0	0.0	0.0	3.6	20.9	7.6	5.5	1.3	4.1	1.6
National Aeronautics and Space Administration	313.9	398.7	531.3	437.9	603.8	770.2	798.4	553.5	515.4	480.0	442.0
National Science Foundation	49.9	56.7	56.7	38.1	56.5	80.9	87.5	110.6	101.0	158.0	318.0
Smithsonian Institution	1.6	1.6	2.8	4.6	4.5	1.2	1.2	6.2	6.0	4.0	3.0
Tennessee Valley Authority	0.4	0.5	0.2	4.9	3.7	4.6	1.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had outlays in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 101. Federal outlays for R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	1,834.2	2,028.7	4,269.7	4,356.5	4,388.3	4,157.9	3,855.6	3,831.6	2,041.0	2,114.5	1,878.7
Departments											
Department of Agriculture	159.1	166.6	108.4	115.2	107.0	77.1	113.2	149.4	184.5	172.8	155.7
Agricultural Research Service	95.0	113.9	96.4	102.2	92.0	61.1	94.2	131.4	171.0	151.7	135.2
Cooperative State Research, Education, and Extension Service	61.5	40.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	2.6	12.0	12.0	13.0	15.0	16.0	19.0	18.0	13.5	21.1	20.5
Department of Commerce	42.5	36.3	20.7	49.4	118.9	93.1	80.2	39.8	46.0	44.2	51.5
National Institute of Standards and Technology	42.5	36.3	20.7	49.3	118.9	77.3	49.2	37.9	46.0	44.2	51.5
National Oceanic and Atmospheric Administration	0.0	0.0	0.0	0.1	0.0	15.7	31.0	1.9	0.0	0.0	0.0
Department of Defense	39.7	127.6	40.0	61.6	369.4	237.2	187.7	210.2	93.3	112.2	67.1
Defense agencies and activities	9.0	18.8	2.8	2.2	282.3	137.9	66.6	77.1	34.8	54.6	7.8
Department of the Air Force	3.7	73.1	2.4	9.8	5.4	6.8	9.7	35.7	38.7	41.3	41.7
Materiel Command	na	na	na	na	5.4	6.8	9.7	35.7	38.7	41.3	41.7
Department of the Army	4.1	4.1	1.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	22.9	31.5	33.1	49.3	81.6	92.5	111.5	97.4	19.8	16.2	17.7
Department of Energy	776.3	801.9	806.7	876.5	1,024.3	1,051.8	1,025.9	846.8	780.3	908.4	835.5
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	4.9	6.2	19.8	24.8	26.1	107.0	7.0
Fossil Energy	NA	NA	NA	NA	9.3	2.9	6.0	6.1	20.5	12.1	0.8
National Nuclear Security Administration	NA	NA	NA	NA	412.4	446.8	425.9	300.1	310.5	237.2	136.7
Defense Programs	NA	NA	NA	NA	397.3	419.9	407.8	268.4	271.6	196.8	96.8
Naval Reactors	NA	NA	NA	NA	15.1	26.8	18.2	31.7	38.9	40.4	39.9
Nuclear Energy	NA	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	30.0
Office of Science	NA	NA	NA	NA	597.8	596.0	574.3	515.8	423.2	552.0	661.1
Department of Health and Human Services	156.9	223.4	219.7	294.3	244.3	817.1	428.6	429.4	358.8	274.0	146.3
Centers for Disease Control and Prevention	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	143.9	68.7	0.0
Food and Drug Administration	13.0	2.5	2.6	3.0	10.2	8.6	6.5	3.1	1.8	1.2	1.9
Health Resources and Services Administration	0.9	0.6	0.6	0.6	0.6	0.3	0.6	0.5	0.6	0.6	0.6
National Institutes of Health	143.0	220.3	216.5	290.6	233.4	808.2	421.4	425.7	212.6	203.4	143.8
Department of Homeland Security	na	na	na	na	na	NA	56.3	61.2	121.2	114.4	84.2
Science and Technology Directorate	na	na	na	na	na	NA	55.3	60.2	120.9	113.4	83.2
U.S. Coast Guard	na	na	na	na	na	NA	1.0	1.0	0.3	1.0	1.0
Department of the Interior	1.6	1.5	1.4	2.1	2.1	3.6	7.6	7.3	5.3	4.9	6.7
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	1.5	5.3	4.6	2.2	2.0	4.4
Minerals Management Service	1.6	1.5	1.4	2.1	2.1	2.1	2.3	2.7	3.1	2.8	2.4
Department of Transportation	21.3	15.5	12.9	4.8	51.4	7.3	14.8	15.8	18.1	18.5	14.8
Federal Aviation Administration	18.9	14.3	12.6	4.0	14.0	6.0	14.0	15.0	17.0	17.0	13.0
Federal Highway Administration	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	1.0	0.9	0.0	0.6	1.1	1.3	0.8	0.8	1.1	1.5	1.8

TABLE 101. Federal outlays for R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Transportation Security Administration	na	na	na	na	36.0	na	na	na	na	na	na
U.S. Coast Guard	0.3	0.3	0.3	0.3	0.3	na	na	na	na	na	na
Department of the Treasury	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	0.1	0.1	0.1	0.0	0.0	na	na	na	na	na	na
Department of Veterans Affairs	1.2	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
Other agencies											
Environmental Protection Agency	21.0	61.0	20.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
General Services Administration	0.0	0.0	0.1	0.6	*	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	320.0	337.0	2,867.0	2,723.0	2,197.0	1,595.8	1,580.8	1,697.3	12.2	12.8	13.4
National Science Foundation	292.0	255.0	170.0	196.0	271.0	272.0	357.0	368.0	395.0	421.0	460.0
Smithsonian Institution	2.5	2.5	2.5	2.5	2.5	2.5	3.0	6.0	26.0	31.0	43.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had outlays in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	57,099.7	58,826.5	63,571.6	65,831.2	64,148.0	68,577.2	70,414.7	69,450.8	70,442.9	69,399.2	71,753.4
Departments											
Department of Agriculture	1,059.6	1,151.8	1,127.5	1,210.6	1,381.3	1,491.8	1,470.2	1,525.6	1,523.6	1,428.7	1,572.8
Agricultural Cooperative Service	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na	na
Agricultural Marketing Service	1.5	1.6	1.5	2.7	4.2	4.7	4.7	4.8	4.8	4.9	4.8
Agricultural Research Service	522.4	561.2	578.7	589.9	655.7	725.2	705.5	757.0	751.0	743.1	806.6
Animal and Plant Health Inspection Service	4.9	6.2	7.7	14.0	15.7	16.7	17.1	19.2	19.1	19.5	19.8
Cooperative State Research, Education, and Extension Service	338.3	374.7	339.4	371.1	438.3	481.2	479.2	471.6	489.0	418.9	496.7
Economic Research Service	44.8	48.1	49.5	50.5	54.4	58.9	58.9	55.2	53.8	53.0	53.0
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.3	1.4
Forest Service	127.1	138.4	133.0	163.5	193.1	184.3	186.3	198.0	197.8	180.4	181.8
Grain Inspection, Packers, and Stockyards Administration	1.2	1.0	1.1	0.6	0.7	1.5	1.8	1.8	1.5	2.5	2.8
Human Nutrition Information Service	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0	na	na	na
National Agricultural Statistics Service	3.4	3.6	2.9	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.4
Office of International Cooperation and Development	5.6	5.0	2.5	3.6	3.1	1.5	1.5	0.0	na	na	na
Office of Transportation	1.1	1.1	na	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	2.4	1.6	1.4	2.5
Department of Commerce	407.5	400.2	407.0	453.5	505.4	672.2	681.7	857.3	1,213.7	1,152.0	1,046.5
Economic Development Administration	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6	0.5	0.6	0.6
National Institute of Standards and Technology	100.7	118.7	124.2	131.0	148.4	190.2	219.8	284.1	640.5	601.0	482.1
National Oceanic and Atmospheric Administration	289.3	263.5	269.1	306.7	345.3	472.2	452.4	562.9	561.4	528.5	530.9
National Telecommunications and Information Administration	7.8	8.1	7.8	7.7	3.6	4.0	4.2	4.8	6.4	15.7	27.8
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	0.0
U.S. Census Bureau	4.7	5.7	4.9	6.9	6.6	5.3	5.4	4.8	4.9	6.3	5.1
Department of Defense	35,708.7	35,684.6	38,076.2	37,755.5	32,560.5	36,526.0	36,220.7	34,818.9	33,856.8	34,582.2	34,873.8
Defense agencies and activities	5,291.8	5,957.3	6,973.3	6,996.8	7,200.9	7,670.5	7,723.3	7,367.8	7,369.1	7,742.0	7,509.1
Department of the Air Force	15,618.0	15,011.0	15,487.6	15,153.6	11,089.8	13,606.8	12,866.9	12,626.8	11,835.7	13,066.5	13,990.6
Department of the Army	5,085.2	4,898.8	5,704.5	5,737.2	6,172.5	6,876.2	6,227.2	5,576.2	5,424.7	4,879.7	4,825.2
Department of the Navy	9,576.8	9,588.9	9,755.7	9,646.6	7,860.0	8,126.8	9,148.3	9,005.1	8,974.5	8,614.4	8,252.5
Operational Test and Evaluation, Director	8.4	68.2	14.4	32.6	13.6	12.4	12.3	11.2	21.7	21.9	26.6
Test and Evaluation, Deputy Under Secretary of Defense	128.5	160.3	140.7	188.7	223.7	233.2	242.5	231.8	231.0	257.7	269.7
Department of Education	153.5	145.9	161.0	178.8	175.2	170.9	179.9	178.4	179.4	173.7	181.2
Department of Energy	5,529.4	5,951.4	6,065.6	6,546.6	7,203.2	7,493.0	7,723.7	6,959.8	6,890.0	6,050.8	6,332.8
Department of Health and Human Services	6,643.0	7,177.6	7,981.4	8,513.4	9,842.3	9,084.6	10,498.5	11,141.7	11,711.0	12,084.2	13,045.3



TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Administration for Children and Families	na	na	na	na	129.0	39.2	19.9	11.3	12.0	12.6	17.4
Administration on Aging	na	na	na	na	20.6	20.2	20.9	19.1	20.7	3.7	4.4
Agency for Healthcare Research and Quality	na	na	na	49.7	101.1	106.3	114.8	154.4	135.3	125.2	144.0
Alcohol, Drug Abuse, and Mental Health Administration	476.1	554.8	695.7	842.7	1,460.6	na	na	na	na	na	na
Centers for Disease Control and Prevention	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0
Centers for Medicare and Medicaid Services	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6
Food and Drug Administration	85.8	91.5	122.0	122.0	143.5	150.0	174.2	177.8	175.8	176.4	173.1
Health Resources and Services Administration	9.3	10.0	10.5	11.9	11.0	10.5	11.0	17.8	14.8	11.8	13.8
Human Development Services	53.0	54.0	101.7	95.4	na	na	na	na	na	na	na
National Institutes of Health	5,886.2	6,309.9	6,833.8	7,221.3	7,763.4	8,491.4	9,893.3	10,439.9	10,930.6	11,377.9	12,237.9
Office of the Assistant Secretary for Health	21.2	21.0	27.2	6.9	10.0	6.7	1.2	0.8	0.3	na	na
Office of the Secretary	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	10.7	19.0
Office of Public Health and Science	na	na	na	na	na	na	na	na	na	1.7	0.6
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	na	na	na	9.0	18.4
Social Security Administration	9.8	14.7	15.8	13.9	11.9	33.0	24.5	22.2	20.4	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	na	na	na	16.7	69.1
Department of Housing and Urban Development	16.3	18.4	18.0	19.3	27.8	25.1	23.6	39.6	41.8	33.1	33.5
Department of the Interior	415.7	426.1	479.8	522.6	615.1	627.6	642.2	703.1	568.3	569.5	587.1
Bureau of Land Management	3.7	3.7	3.0	2.8	8.8	6.3	8.9	0.0	0.0	0.0	0.0
Bureau of Mines	88.8	91.3	101.2	102.3	108.2	107.1	111.9	107.9	0.0	na	na
Bureau of Reclamation	10.7	4.4	4.2	5.8	8.7	13.2	10.3	7.4	8.0	6.5	7.1
Geological Survey	227.6	236.9	281.1	309.7	359.8	365.7	360.4	377.4	367.4	520.1	531.2
Minerals Management Service	1.0	1.2	2.2	2.0	2.9	4.8	6.9	21.8	21.0	22.6	22.8
National Biological Service	na	na	na	na	na	na	0.0	164.2	152.1	na	na
National Park Service	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0
Office of Surface Mining Reclamation and Enforcement	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0	0.0	0.0	0.0
Office of the Secretary	0.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1	*	0.0	0.0
U.S. Fish and Wildlife Service	64.3	67.8	67.5	78.9	97.6	98.2	104.8	0.0	0.0	0.0	0.0
Department of Justice	53.5	43.1	38.2	40.5	48.9	48.0	48.9	45.0	57.9	77.3	84.7
Bureau of Prisons	7.1	6.0	5.1	4.5	5.2	5.9	6.1	5.4	5.7	5.2	4.6
Drug Enforcement Administration	2.2	2.5	2.7	2.4	2.7	1.4	0.9	0.9	0.4	1.2	*
Federal Bureau of Investigation	19.1	12.7	7.7	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5
Immigration and Naturalization Service	0.4	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
Office of Justice Programs	24.6	21.5	22.5	25.0	29.8	29.4	30.2	31.4	40.5	37.2	44.2
Office of Legal Policy	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	21.6	35.6	35.4	73.0	44.0	51.7	55.0	59.7	55.4	52.4	35.1
Bureau of Labor Statistics	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6
Employee Benefits Security Administration	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0

TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Employment and Training Administration	5.7	14.9	15.7	53.4	22.1	31.7	35.9	40.0	25.6	26.9	14.1
Employment Standards Administration	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.3	0.4	0.3	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5
Office of the Secretary	2.7	6.1	6.1	7.1	8.7	5.9	5.8	5.3	6.3	2.6	0.2
Pension Benefit Guaranty Corporation	0.3	0.3	0.3	0.5	0.5	0.9	1.3	1.3	0.8	0.7	0.7
Department of State	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	0.9	1.0
Department of Transportation	336.2	318.5	318.9	388.3	398.3	470.3	577.6	661.7	755.8	584.3	545.9
Federal Aviation Administration	177.7	173.8	162.3	237.5	236.4	260.2	271.3	318.6	310.1	228.9	226.3
Federal Highway Administration	76.9	74.1	91.0	91.5	86.9	131.0	175.7	242.0	315.6	247.3	211.2
Federal Railroad Administration	11.2	10.4	9.0	10.2	17.6	22.8	26.8	20.6	30.1	30.1	19.5
Federal Transit Administration	12.6	2.3	1.4	1.6	1.7	1.7	31.3	19.9	28.7	13.7	17.0
Maritime Administration	5.8	0.5	0.0	0.9	1.7	1.8	1.7	1.7	2.5	0.0	0.0
National Highway Traffic Safety Administration	28.4	28.3	29.7	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4
Office of the Secretary	4.5	5.7	5.5	6.8	4.3	4.1	4.5	5.4	3.9	2.8	3.5
Research and Special Programs Administration	2.1	2.1	2.0	2.4	2.4	2.5	1.3	5.3	5.0	7.7	8.7
U.S. Coast Guard	17.0	21.4	17.9	20.6	25.9	20.5	33.4	22.8	20.2	20.5	23.3
Department of the Treasury	27.0	26.2	25.7	25.7	31.0	24.8	16.8	19.1	61.5	60.2	59.8
Bureau of Engraving and Printing	4.5	2.0	1.7	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	2.3	1.2	1.5	0.0	0.0	0.0	0.0
Internal Revenue Service	14.6	14.4	14.4	16.8	17.9	17.9	6.5	11.3	49.7	51.2	50.8
Office of Thrift Supervision	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5	0.6
U.S. Customs Service	7.1	9.3	6.9	6.3	3.8	2.3	4.1	4.6	8.6	6.3	6.3
U.S. Mint	0.2	0.1	2.0	0.1	0.1	0.0	0.1	0.5	0.3	0.0	*
U.S. Secret Service	0.5	0.4	0.6	0.5	0.4	0.6	0.6	0.5	0.6	0.5	0.4
Department of Veterans Affairs	215.4	234.8	245.7	241.0	220.0	229.6	239.5	259.7	245.1	259.9	284.0
Other agencies											
Advisory Commission on Intergovernmental Relations	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	na	na
Agency for International Development	224.3	210.6	279.1	334.6	377.7	365.9	382.2	254.3	302.5	223.0	206.4
Appalachian Regional Commission	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9
Consumer Product Safety Commission	2.2	1.1	1.3	1.1	1.3	1.1	1.2	0.3	0.4	*	0.1
Environmental Protection Agency	348.2	347.4	380.3	419.7	432.6	483.9	497.8	558.3	556.3	464.3	517.2
Federal Communications Commission	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1
Federal Trade Commission	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7
General Services Administration	1.6	2.3	0.5	19.5	22.6	6.5	1.0	0.3	5.1	0.1	*
Library of Congress	6.5	7.1	8.0	8.4	9.0	10.3	10.5	10.0	10.2	10.6	2.4
National Aeronautics and Space Administration	4,096.5	4,758.6	5,913.0	7,060.3	8,003.8	8,475.4	8,769.2	8,811.5	9,639.7	8,987.5	9,661.1
National Archives and Records Administration	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3	0.1	0.1	0.1
National Science Foundation	1,531.8	1,589.6	1,724.0	1,728.8	1,944.8	1,970.0	2,012.3	2,212.2	2,438.9	2,375.5	2,452.3

TABLE 102. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Nuclear Regulatory Commission	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1
Office of Thrift Supervision	3.4	3.4	4.1	4.1	na	na	na	na	na	na	na
Smithsonian Institution	74.4	75.8	83.6	88.8	99.5	101.8	107.0	129.2	129.0	132.0	134.0
Social Security Administration	na	na	na	na	na	na	na	na	na	11.5	13.6
Tennessee Valley Authority	78.2	87.7	62.8	69.8	73.1	100.5	109.6	97.9	93.1	6.1	8.9
U.S. Arms Control and Disarmament Agency	4.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2
U.S. Information Agency	3.5	0.4	0.1	0.5	0.1	0.0	1.1	0.6	0.3	0.1	0.2
U.S. International Trade Commission	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 103. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	73,914.0	77,386.4	77,356.2	84,003.0	90,157.7	97,927.9	105,370.7	112,994.6	112,270.6	116,699.8	113,212.6
Departments											
Department of Agriculture	1,530.8	1,745.2	1,833.5	2,076.0	2,090.6	2,136.0	2,281.6	2,318.6	2,386.2	2,427.9	2,000.6
Agricultural Marketing Service	4.7	4.7	5.1	4.8	5.2	4.8	9.0	7.9	6.3	6.6	6.8
Agricultural Research Service	844.2	973.6	959.3	1,098.3	1,163.6	1,143.2	1,258.6	1,226.8	1,294.0	1,209.8	1,021.5
Animal and Plant Health Inspection Service	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	25.5	26.1	31.3
Cooperative State Research, Education, and Extension Service	387.3	463.1	535.0	615.1	546.7	568.1	585.7	651.6	645.1	743.2	536.2
Economic Research Service	71.5	62.5	64.2	65.6	67.0	68.4	70.8	74.0	75.0	75.2	82.5
Food Safety Inspection Service	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	0.9	0.9	0.9
Forest Service	190.4	209.0	235.0	250.0	268.0	307.2	314.9	315.9	321.6	350.1	305.5
Grain Inspection, Packers, and Stockyards Administration	2.7	2.7	3.6	6.1	6.0	5.3	6.7	6.7	7.1	6.7	7.9
National Agricultural Statistics Service	3.3	3.6	3.9	4.2	4.6	5.5	6.1	6.1	6.5	6.7	6.9
Rural Business-Cooperative Service	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	2.6	1.1
Department of Commerce	970.0	1,009.8	1,237.1	1,021.7	1,180.5	1,267.0	1,148.6	1,094.1	1,016.2	1,018.8	1,064.2
Economic Development Administration	0.6	0.6	0.6	0.6	0.5	0.5	0.2	0.5	0.2	1.1	0.0
National Institute of Standards and Technology	415.7	421.8	604.7	445.7	480.5	525.1	481.6	463.0	429.0	520.9	514.4
National Oceanic and Atmospheric Administration	519.5	547.2	597.1	501.0	651.3	695.4	618.5	600.3	558.2	467.9	516.3
National Telecommunications and Information Administration	25.5	25.2	21.8	50.4	19.6	23.5	24.2	6.9	6.7	7.1	7.1
U.S. Census Bureau	8.6	15.0	13.0	24.0	28.7	22.5	24.2	23.5	22.1	21.8	26.3
Department of Defense	35,352.0	35,753.4	33,215.2	35,570.0	37,922.2	42,282.6	47,369.6	54,036.1	54,349.8	58,531.0	54,971.1
Defense agencies and activities	7,981.9	7,476.0	7,195.9	9,380.8	12,359.8	12,640.9	13,188.7	15,406.6	14,338.4	17,380.1	16,572.7
Department of the Air Force	13,865.2	14,069.5	11,060.5	10,024.6	6,907.9	8,399.8	9,640.6	10,453.6	10,115.1	10,632.9	10,707.0
Materiel Command	na	na	na	na	4,651.3	5,602.9	6,595.4	7,529.1	6,836.9	7,293.2	6,972.3
Space Command	na	na	na	na	2,256.5	2,797.0	3,045.2	2,924.5	3,278.1	3,339.7	3,734.7
Department of the Army	5,041.7	5,043.5	5,323.7	6,223.7	7,076.6	7,609.5	9,223.0	10,208.3	11,318.3	10,914.8	10,309.4
Department of the Navy	8,190.8	8,862.4	9,345.1	9,710.3	11,344.5	13,396.6	15,019.3	17,660.1	18,399.1	19,422.6	17,201.5
Operational Test and Evaluation, Director	30.3	44.7	32.9	205.3	233.5	235.7	298.2	307.5	178.9	180.6	180.5
Test and Evaluation, Deputy Under Secretary of Defense	242.0	257.3	257.0	25.3	na	na	na	na	na	na	na
Department of Education	204.5	223.7	247.3	277.6	285.6	302.9	311.4	316.0	337.0	333.0	337.3
Department of Energy	6,600.9	6,875.9	6,873.8	7,651.4	8,072.2	8,436.0	8,560.5	8,596.7	8,340.1	8,899.1	9,424.8
Bonneville Power Administration	NA	NA	NA	NA	22.9	23.3	24.7	11.3	10.7	11.0	8.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	62.5	75.8	78.9	53.5	52.9	12.4	28.9
Electricity Delivery and Energy Restoration	NA	NA	NA	NA	NA	NA	NA	80.3	133.5	94.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	744.7	688.5	603.6	576.7	456.7	768.7	648.7

TABLE 103. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Environmental Management	NA	NA	NA	NA	160.3	69.4	42.8	49.8	34.0	21.4	21.4
Fossil Energy	NA	NA	NA	NA	373.5	643.8	532.3	572.7	455.0	439.3	418.4
National Nuclear Security Administration	NA	NA	NA	NA	3,728.3	3,923.3	4,036.3	3,922.0	3,861.9	3,665.4	3,742.6
Defense Programs	NA	NA	NA	NA	2,770.0	2,996.7	3,135.1	3,001.3	2,865.2	2,703.3	2,752.6
Fissile Materials Disposition	NA	NA	NA	NA	27.4	25.1	1.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	665.5	678.0	736.9	775.2	753.4	749.1	776.9
Nonproliferation and Verification	NA	NA	NA	NA	265.4	223.5	163.3	145.5	243.3	213.0	213.0
Nuclear Energy	NA	NA	NA	NA	42.5	47.1	74.3	84.5	89.0	77.7	422.2
Office of Intelligence	NA	NA	NA	NA	5.3	4.0	0.0	0.0	0.0	0.0	0.0
Office of Science	NA	NA	NA	NA	2,932.2	2,960.7	3,167.8	3,245.9	3,246.4	3,809.1	4,052.0
Department of Health and Human Services	14,187.9	16,167.6	18,645.5	21,641.9	24,259.1	27,214.8	28,563.8	29,172.5	29,126.5	29,027.5	28,960.3
Administration for Children and Families	23.5	24.9	27.3	28.4	23.3	20.9	20.1	38.6	14.4	14.7	15.1
Administration on Aging	10.4	18.5	2.8	3.7	3.7	0.0	3.0	2.9	2.9	0.0	0.0
Agency for Healthcare Research and Quality	146.5	182.3	198.8	269.7	298.7	308.7	303.7	318.7	318.7	318.7	329.6
Agency for Toxic Substances and Disease Registry	na	na	14.7	13.1	12.4	14.3	10.7	9.5	9.0	10.9	6.4
Centers for Disease Control and Prevention	343.6	433.3	505.0	544.0	521.0	564.0	539.8	510.8	688.5	602.9	534.2
Centers for Medicare and Medicaid Services	51.2	49.7	61.5	138.0	117.0	73.6	77.6	77.3	62.4	57.4	33.7
Food and Drug Administration	171.0	133.4	146.7	160.4	149.7	145.6	140.8	142.8	147.2	144.9	140.1
Health Resources and Services Administration	13.8	13.4	36.2	51.6	54.7	43.5	48.0	53.4	24.1	24.3	24.1
National Institutes of Health	13,137.5	15,005.0	17,134.8	19,771.3	22,343.5	25,964.6	27,311.8	27,926.0	27,778.1	27,828.3	27,851.8
Office of the Secretary	17.0	17.7	19.8	27.4	17.4	22.5	21.1	24.8	26.8	25.4	25.4
Office of Public Health and Science	3.1	3.8	3.1	2.5	2.5	2.6	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	13.9	13.9	16.7	24.9	14.9	19.9	21.1	24.8	26.8	25.4	25.4
Substance Abuse and Mental Health Services Administration	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	54.3	0.0	0.0
Department of Homeland Security	na	na	na	na	na	NA	1,063.2	1,453.9	1,857.2	1,108.8	819.6
Science and Technology Directorate	na	na	na	na	na	NA	908.4	1,258.0	1,823.0	1,083.0	799.1
Transportation Security Administration	na	na	na	na	na	NA	137.9	180.5	11.7	2.6	0.0
U.S. Coast Guard	na	na	na	na	na	NA	16.0	14.4	21.5	22.3	19.6
U.S. Secret Service	na	na	na	na	na	NA	1.0	1.0	1.0	0.9	0.9
Department of Housing and Urban Development	28.0	57.0	45.6	52.9	45.3	39.0	46.6	43.5	33.5	37.4	40.5
Department of the Interior	533.5	642.9	581.2	622.1	634.9	600.3	612.5	597.0	608.5	593.1	588.6
Bureau of Reclamation	8.8	10.3	9.8	9.7	10.4	11.0	16.3	17.3	11.1	10.5	13.4
Geological Survey	464.1	579.1	506.1	572.6	565.0	550.2	552.2	546.2	561.5	553.5	547.1
Minerals Management Service	30.8	30.1	30.5	27.0	33.3	28.8	29.8	29.9	32.1	29.0	28.1
National Park Service <sup>a</sup>	29.7	23.4	34.7	12.9	26.2	10.3	14.3	3.5	3.8	0.0	0.0
Department of Justice	100.6	118.6	80.5	103.4	99.2	148.2	105.3	127.5	127.9	157.6	101.8
Bureau of Prisons	8.1	11.0	7.8	14.1	8.7	9.7	10.8	12.7	12.2	11.3	11.4
Federal Bureau of Investigation	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8	22.9

TABLE 103. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Immigration and Naturalization Service	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na	na
Office of Justice Programs	56.7	71.1	62.2	69.3	56.9	95.7	60.5	81.3	81.5	75.4	67.5
Department of Labor	27.8	54.1	83.7	97.4	166.4	189.1	199.4	164.4	95.3	215.7	190.1
Bureau of Labor Statistics	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	22.6	22.8
Employee Benefits Security Administration	2.7	2.5	2.7	3.3	2.7	2.7	2.5	2.7	2.6	2.6	2.6
Employment and Training Administration	7.2	33.8	60.9	60.9	137.1	160.0	170.0	133.7	64.1	184.7	159.0
Occupational Safety and Health Administration	4.6	3.8	5.8	5.7	3.8	3.1	3.4	3.4	3.5	3.7	3.8
Office of the Secretary	0.2	1.0	1.3	5.3	1.2	1.8	0.2	0.5	0.3	0.3	0.3
Pension Benefit Guaranty Corporation	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.6	1.9	1.8	1.7
Department of State	0.9	1.5	1.5	2.2	2.3	2.3	3.0	3.3	4.2	4.3	4.8
Department of Transportation	583.7	681.5	479.3	690.5	867.2	711.8	647.0	436.7	838.0	843.6	857.4
Federal Aviation Administration	242.3	219.6	230.5	300.6	359.6	262.6	234.2	243.7	277.0	250.1	255.6
Federal Highway Administration	229.3	333.2	126.7	240.8	258.3	305.2	323.4	73.9	400.1	447.3	458.2
Federal Motor Carrier Safety Administration	na	na	3.9	11.4	3.7	6.8	6.4	6.6	5.3	8.7	6.6
Federal Railroad Administration	22.6	20.9	27.4	26.2	34.1	33.1	29.9	31.8	49.0	44.8	34.5
Federal Transit Administration	17.6	20.5	8.9	8.0	5.8	7.1	4.6	4.2	16.6	10.4	12.8
National Highway Traffic Safety Administration	41.6	50.4	50.6	58.3	59.6	65.4	6.7	40.1	57.5	57.5	65.7
Office of the Secretary	3.4	9.1	4.0	13.0	18.4	21.0	31.8	21.0	14.8	4.9	9.1
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	0.0	0.0	0.0	10.0	13.9	15.2	14.9	6.6
Research and Innovative Technology Administration	na	na	na	na	na	na	0.0	1.5	2.5	5.0	8.4
Research and Special Programs Administration	6.3	7.3	6.9	8.4	10.2	10.6	na	na	na	na	na
Transportation Security Administration	na	na	na	na	95.0	na	na	na	na	na	na
U.S. Coast Guard	20.7	20.5	20.3	23.8	22.4	na	na	na	na	na	na
Department of the Treasury	65.2	64.8	61.5	67.7	74.4	60.0	62.4	66.4	68.8	69.8	75.9
Bureau of Engraving and Printing	2.8	2.1	2.8	4.7	7.1	4.9	4.2	6.2	6.0	8.1	8.9
Internal Revenue Service	52.0	55.8	54.4	57.3	55.5	54.4	57.3	57.8	55.4	54.7	61.0
Office of Thrift Supervision	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na	na
U.S. Customs Service	9.2	5.4	1.9	4.0	10.6	na	na	na	na	na	na
U.S. Mint	0.1	0.8	1.3	0.8	0.3	0.7	1.0	2.4	7.4	7.0	6.0
U.S. Secret Service	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na	na
Department of Veterans Affairs	277.5	339.4	342.0	345.3	329.2	365.7	405.6	402.3	412.0	414.0	411.0
Other agencies											
Agency for International Development	212.0	203.0	218.8	267.0	269.8	286.0	264.8	257.5	255.0	255.0	255.0
Appalachian Regional Commission	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.8	1.0	0.7	0.7
Broadcasting Board of Governors	na	na	0.1	*	0.3	0.0	1.0	0.2	0.2	0.0	0.0
Consumer Product Safety Commission	0.0	0.0	0.0	0.1	0.0	0.0	na	na	na	na	na
Environmental Protection Agency	637.2	668.8	523.2	472.5	415.2	567.1	661.9	641.4	621.5	553.5	539.8
Federal Communications Commission	3.0	4.5	2.8	2.7	4.4	4.5	8.5	8.8	7.6	9.9	6.8

TABLE 103. Federal obligations for research, development, and R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Federal Trade Commission	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.7	2.0
General Services Administration	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.5	2.4	2.5	3.1	3.0	1.8	18.0	8.6	7.3	7.0	4.4
National Aeronautics and Space Administration	9,918.0	9,885.2	9,754.9	9,524.2	9,726.5	9,158.2	8,654.1	8,928.5	7,250.0	7,331.3	7,347.3
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,473.7	2,679.6	2,942.1	3,328.7	3,500.8	3,943.8	4,166.0	4,098.3	4,239.5	4,522.5	4,855.6
Nuclear Regulatory Commission	51.7	49.0	53.0	53.0	74.3	64.0	72.1	70.1	71.4	76.5	70.9
Smithsonian Institution	123.0	93.0	101.0	101.0	109.0	107.0	110.8	115.1	146.4	160.6	181.3
Social Security Administration	17.4	53.3	28.8	28.9	22.8	36.8	30.4	35.1	67.8	99.4	100.7
Tennessee Valley Authority	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	na	na	na	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	na	na	na	na	na	na	na	na	na
U.S. International Trade Commission	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

<sup>a</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration (NASA) reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. In FY 2000, National Institutes of Health reclassified all of its development activities as research. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 104. Federal obligations for research and development, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	55,253.7	56,769.4	61,406.5	63,559.5	61,295.2	65,592.6	67,314.0	67,235.4	68,186.8	67,653.0	69,826.8
Departments											
Department of Agriculture	947.9	1,016.6	1,038.3	1,108.4	1,236.6	1,327.1	1,327.8	1,399.9	1,380.2	1,300.3	1,388.6
Agricultural Cooperative Service	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na	na
Agricultural Marketing Service	1.5	1.6	1.5	2.7	4.2	4.7	4.7	4.8	4.8	4.9	4.8
Agricultural Research Service	478.6	505.7	523.5	545.5	591.0	627.1	627.2	678.7	683.3	675.2	687.6
Animal and Plant Health Inspection Service	4.9	5.6	7.4	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.8
Cooperative State Research, Education, and Extension Service	270.7	298.4	307.3	324.2	376.8	418.2	418.6	429.0	417.7	362.4	433.5
Economic Research Service	44.8	48.1	49.5	50.5	54.4	58.9	58.9	55.2	53.8	53.0	53.0
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.3	1.4
Forest Service	126.7	135.5	131.4	158.6	174.7	180.7	182.7	193.1	193.5	177.9	179.8
Grain Inspection, Packers, and Stockyards Administration	1.2	1.0	1.1	0.6	0.7	1.5	1.8	1.8	1.5	2.5	2.8
Human Nutrition Information Service	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0	na	na	na
National Agricultural Statistics Service	3.4	3.6	2.9	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.4
Office of International Cooperation and Development	5.6	5.0	2.5	3.6	3.1	1.5	1.5	0.0	na	na	na
Office of Transportation	1.1	1.1	na	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	2.4	1.6	1.4	2.5
Department of Commerce	402.2	388.9	397.9	438.2	489.6	651.2	656.3	826.1	1,136.0	1,067.5	1,003.1
Economic Development Administration	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6	0.5	0.6	0.6
National Institute of Standards and Technology	98.6	107.9	115.5	122.3	140.0	179.0	207.2	253.2	563.3	516.5	460.4
National Oceanic and Atmospheric Administration	286.1	263.0	268.6	300.1	338.0	462.4	439.5	562.6	560.9	528.5	509.3
National Telecommunications and Information Administration	7.8	8.1	7.8	7.7	3.6	4.0	4.2	4.8	6.4	15.7	27.8
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	0.0
U.S. Census Bureau	4.7	5.7	4.9	6.9	6.6	5.3	5.4	4.8	4.9	6.3	5.1
Department of Defense	35,231.5	35,248.9	37,576.9	37,268.1	32,134.8	36,129.5	35,849.1	34,553.2	33,796.3	34,535.4	34,788.3
Defense agencies and activities	5,219.7	5,832.9	6,858.9	6,945.2	7,072.5	7,571.7	7,647.0	7,279.7	7,363.2	7,733.8	7,503.8
Department of the Air Force	15,347.7	14,867.3	15,237.4	14,831.4	10,937.5	13,427.1	12,635.3	12,527.4	11,797.9	13,042.1	13,951.5
Department of the Army	5,019.5	4,806.0	5,659.3	5,684.1	6,081.5	6,854.2	6,209.1	5,574.1	5,419.3	4,873.6	4,821.1
Department of the Navy	9,507.8	9,514.1	9,666.1	9,586.2	7,806.0	8,030.8	9,102.9	8,929.0	8,963.3	8,606.4	8,215.5
Operational Test and Evaluation, Director	8.4	68.2	14.4	32.6	13.6	12.4	12.3	11.2	21.7	21.9	26.6
Test and Evaluation, Deputy Under Secretary of Defense	128.5	160.3	140.7	188.7	223.7	233.2	242.5	231.8	231.0	257.7	269.7
Department of Education	132.5	140.7	159.1	169.9	171.0	168.5	177.7	176.6	177.6	173.7	181.2
Department of Energy	4,757.2	5,036.4	5,192.6	5,630.6	5,983.1	6,172.2	6,262.1	6,048.0	6,145.0	5,344.9	5,603.5
Department of Health and Human Services	6,606.3	7,158.0	7,902.8	8,405.6	9,756.0	8,987.8	10,349.2	11,021.5	11,455.2	11,951.1	12,785.3



TABLE 104. Federal obligations for research and development, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Administration for Children and Families	na	na	na	na	129.0	39.2	19.9	11.3	12.0	12.6	17.4
Administration on Aging	na	na	na	na	20.6	20.2	20.9	19.1	20.7	3.7	4.4
Agency for Healthcare Research and Quality	na	na	na	49.7	101.1	106.3	114.8	154.4	135.3	125.2	144.0
Alcohol, Drug Abuse, and Mental Health Administration	475.5	554.8	695.7	842.7	1,460.6	na	na	na	na	na	na
Centers for Disease Control and Prevention	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0
Centers for Medicare and Medicaid Services	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6
Food and Drug Administration	85.0	91.0	99.0	99.0	125.0	135.7	154.5	169.4	170.5	170.8	158.6
Health Resources and Services Administration	9.3	10.0	10.5	11.9	11.0	10.1	9.6	16.4	13.2	11.1	13.1
Human Development Services	53.0	54.0	101.7	95.4	na	na	na	na	na	na	na
National Institutes of Health	5,850.9	6,290.9	6,778.3	7,136.5	7,695.5	8,409.2	9,765.1	10,329.4	10,681.8	11,251.0	11,993.0
Office of the Assistant Secretary for Health	21.2	21.0	27.2	6.9	10.0	6.7	1.2	0.8	0.3	na	na
Office of the Secretary	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	10.7	19.0
Office of Public Health and Science	na	na	na	na	na	na	na	na	na	1.7	0.6
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	na	na	na	9.0	18.4
Social Security Administration	9.8	14.7	15.8	13.9	11.9	33.0	24.5	22.2	20.4	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	na	na	na	16.7	69.1
Department of Housing and Urban Development	16.3	18.4	18.0	19.3	27.8	25.1	23.6	39.6	41.8	33.1	33.5
Department of the Interior	403.8	416.8	469.0	508.5	592.9	609.2	619.1	694.1	561.6	567.5	579.9
Bureau of Land Management	3.7	3.7	3.0	2.8	8.8	6.3	8.9	0.0	0.0	0.0	0.0
Bureau of Mines	88.8	91.3	98.7	99.3	106.1	107.1	111.9	107.9	0.0	na	na
Bureau of Reclamation	10.7	4.4	4.2	5.8	8.7	13.2	10.3	7.4	8.0	6.5	7.1
Geological Survey	226.8	236.1	279.9	308.4	356.6	361.4	356.7	371.1	362.0	518.9	526.3
Minerals Management Service	1.0	1.2	2.2	1.9	2.7	3.8	5.8	20.6	20.0	21.9	20.6
National Biological Service	na	na	na	na	na	na	0.0	162.8	151.8	na	na
National Park Service	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0
Office of Surface Mining Reclamation and Enforcement	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0	0.0	0.0	0.0
Office of the Secretary	0.0	0.4	0.4	0.2	0.6	0.9	0.4	0.1	*	0.0	0.0
U.S. Fish and Wildlife Service	53.3	59.2	60.6	69.4	81.0	85.1	86.5	0.0	0.0	0.0	0.0
Department of Justice	42.4	43.1	38.2	40.5	48.9	48.0	48.9	45.0	57.9	77.3	84.7
Bureau of Prisons	7.1	6.0	5.1	4.5	5.2	5.9	6.1	5.4	5.7	5.2	4.6
Drug Enforcement Administration	2.2	2.5	2.7	2.4	2.7	1.4	0.9	0.9	0.4	1.2	*
Federal Bureau of Investigation	8.0	12.7	7.7	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5
Immigration and Naturalization Service	0.4	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
Office of Justice Programs	24.6	21.5	22.5	25.0	29.8	29.4	30.2	31.4	40.5	37.2	44.2
Office of Legal Policy	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	21.6	35.6	35.4	73.0	44.0	51.7	55.0	59.7	55.4	52.4	35.1
Bureau of Labor Statistics	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6
Employee Benefits Security Administration	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0

TABLE 104. Federal obligations for research and development, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Employment and Training Administration	5.7	14.9	15.7	53.4	22.1	31.7	35.9	40.0	25.6	26.9	14.1
Employment Standards Administration	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.3	0.4	0.3	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5
Office of the Secretary	2.7	6.1	6.1	7.1	8.7	5.9	5.8	5.3	6.3	2.6	0.2
Pension Benefit Guaranty Corporation	0.3	0.3	0.3	0.5	0.5	0.9	1.3	1.3	0.8	0.7	0.7
Department of State	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	0.9	1.0
Department of Transportation	325.0	304.6	303.3	366.6	379.9	445.0	545.3	620.7	727.0	552.5	526.9
Federal Aviation Administration	167.3	160.5	146.8	216.1	220.1	236.2	248.9	285.6	288.4	208.3	209.1
Federal Highway Administration	76.7	74.1	91.0	91.5	86.9	130.2	174.9	235.7	312.5	240.0	210.3
Federal Railroad Administration	11.2	10.0	9.0	10.2	15.9	22.7	25.2	19.5	26.5	26.7	18.9
Federal Transit Administration	12.6	2.3	1.4	1.6	1.7	1.7	24.3	19.9	28.7	13.7	17.0
Maritime Administration	5.8	0.5	0.0	0.9	1.7	1.8	1.7	1.7	2.5	0.0	0.0
National Highway Traffic Safety Administration	27.9	28.3	29.7	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4
Office of the Secretary	4.5	5.7	5.5	6.8	4.3	4.1	4.5	5.4	3.9	2.8	3.5
Research and Special Programs Administration	2.1	2.1	2.0	2.4	2.4	2.5	1.3	5.3	5.0	7.7	8.7
U.S. Coast Guard	17.0	21.1	17.9	20.2	25.5	20.1	32.9	22.3	19.7	20.0	22.9
Department of the Treasury	26.9	26.1	25.6	25.6	30.8	24.6	16.6	19.0	61.4	60.0	59.7
Bureau of Engraving and Printing	4.5	2.0	1.7	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.7
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	2.3	1.2	1.5	0.0	0.0	0.0	0.0
Internal Revenue Service	14.6	14.4	14.4	16.8	17.9	17.9	6.5	11.3	49.7	51.2	50.8
Office of Thrift Supervision	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5	0.6
U.S. Customs Service	7.0	9.2	6.8	6.2	3.7	2.2	4.0	4.5	8.5	6.2	6.1
U.S. Mint	0.2	0.1	2.0	0.1	0.1	0.0	0.1	0.5	0.3	0.0	*
U.S. Secret Service	0.5	0.4	0.6	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.4
Department of Veterans Affairs	209.5	215.3	234.7	237.7	216.6	223.9	236.2	248.0	237.9	256.1	252.7
Other agencies											
Advisory Commission on Intergovernmental Relations	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	na	na
Agency for International Development	217.5	204.4	279.1	334.6	377.7	365.9	382.2	254.3	302.5	223.0	206.4
Appalachian Regional Commission	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9
Consumer Product Safety Commission	2.2	1.1	1.3	1.1	1.3	1.1	1.2	0.3	0.4	*	0.1
Environmental Protection Agency	348.2	347.4	380.3	419.7	432.6	483.9	495.3	553.5	551.5	464.3	492.2
Federal Communications Commission	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1
Federal Trade Commission	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7
General Services Administration	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	6.5	7.1	8.0	8.4	9.0	10.3	10.5	10.0	10.2	10.6	2.4
National Aeronautics and Space Administration	3,787.1	4,330.4	5,393.5	6,533.2	7,280.2	7,657.6	8,019.9	8,296.2	9,014.9	8,570.1	9,327.3
National Archives and Records Administration	1.1	0.7	0.3	0.4	0.7	0.7	0.3	0.3	0.1	0.1	0.1
National Science Foundation	1,470.5	1,532.8	1,670.4	1,689.5	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5

TABLE 104. Federal obligations for research and development, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Nuclear Regulatory Commission	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1
Office of Thrift Supervision	3.4	3.4	4.1	4.1	na	na	na	na	na	na	na
Smithsonian Institution	71.5	75.1	80.2	84.0	98.0	98.0	102.0	124.2	124.0	127.0	130.0
Social Security Administration	na	na	na	na	na	na	na	na	na	11.5	13.6
Tennessee Valley Authority	77.9	87.3	62.6	64.9	68.3	97.3	108.6	97.9	93.1	6.1	8.9
U.S. Arms Control and Disarmament Agency	3.6	3.4	2.8	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2
U.S. Information Agency	3.5	0.4	0.1	0.5	0.1	0.0	1.1	0.6	0.3	0.1	0.2
U.S. International Trade Commission	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 105. Federal obligations for research and development, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	72,100.7	75,340.6	72,863.3	79,933.2	85,853.0	93,661.3	101,376.5	109,223.5	110,145.8	114,501.5	111,346.0
Departments											
Department of Agriculture	1,441.0	1,614.1	1,746.8	1,959.1	1,971.8	2,039.6	2,102.2	2,184.3	2,213.7	2,266.8	1,980.1
Agricultural Marketing Service	4.7	4.7	5.1	4.8	5.2	4.8	9.0	7.9	6.3	6.6	6.8
Agricultural Research Service	757.9	855.1	884.7	994.4	1,059.8	1,062.0	1,098.1	1,107.7	1,134.9	1,069.8	1,021.5
Animal and Plant Health Inspection Service	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	25.5	26.1	31.3
Cooperative State Research, Education, and Extension Service	386.4	462.5	535.0	615.1	546.7	568.1	585.7	651.6	645.1	743.2	536.2
Economic Research Service	71.5	62.5	64.2	65.6	67.0	68.4	70.8	74.0	75.0	75.2	82.5
Food Safety Inspection Service	0.2	0.7	2.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	0.9	0.9	0.9
Forest Service	187.8	197.0	223.0	237.0	253.0	292.0	296.0	300.7	308.1	329.0	285.0
Grain Inspection, Packers, and Stockyards Administration	2.7	2.7	3.6	6.1	6.0	5.3	6.7	6.7	7.1	6.7	7.9
National Agricultural Statistics Service	3.3	3.6	3.9	4.2	4.6	5.5	6.1	6.1	6.5	6.7	6.9
Rural Business-Cooperative Service	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	2.6	1.1
Department of Commerce	948.6	990.2	1,036.6	997.9	1,151.4	1,208.0	1,058.9	1,033.4	941.7	912.6	931.8
Economic Development Administration	0.6	0.6	0.6	0.6	0.5	0.5	0.2	0.5	0.2	1.1	0.0
National Institute of Standards and Technology	394.4	402.2	404.2	422.0	451.4	476.0	444.2	418.7	385.7	453.2	420.6
National Oceanic and Atmospheric Administration	519.5	547.2	597.1	501.0	651.3	685.4	566.3	583.8	526.9	429.4	477.8
National Telecommunications and Information Administration	25.5	25.2	21.8	50.4	19.6	23.5	24.2	6.9	6.7	7.1	7.1
U.S. Census Bureau	8.6	15.0	13.0	24.0	28.7	22.5	24.2	23.5	22.1	21.8	26.3
Department of Defense	35,286.2	35,645.9	33,167.0	35,422.6	37,557.1	42,031.2	47,095.0	53,763.3	54,286.5	58,444.9	54,932.1
Defense agencies and activities	7,980.8	7,455.9	7,190.8	9,376.1	12,075.7	12,502.9	13,067.6	15,324.5	14,303.6	17,322.4	16,559.7
Department of the Air Force	13,839.1	14,022.3	11,055.0	9,992.7	6,884.4	8,393.0	9,621.1	10,346.7	10,103.8	10,619.3	10,696.4
Materiel Command	na	na	na	na	4,645.9	5,596.1	6,575.9	7,422.1	6,825.6	7,279.6	6,961.7
Space Command	na	na	na	na	2,238.4	2,797.0	3,045.2	2,924.5	3,278.1	3,339.7	3,734.7
Department of the Army	5,037.7	5,038.9	5,323.7	6,223.7	7,076.6	7,609.5	9,223.0	10,208.3	11,318.3	10,914.8	10,309.4
Department of the Navy	8,156.3	8,826.8	9,307.6	9,599.6	11,287.0	13,290.0	14,885.2	17,576.4	18,381.9	19,407.9	17,186.0
Operational Test and Evaluation, Director	30.3	44.7	32.9	205.3	233.5	235.7	298.2	307.5	178.9	180.6	180.5
Test and Evaluation, Deputy Under Secretary of Defense	242.0	257.3	257.0	25.3	na	na	na	na	na	na	na
Department of Education	204.5	223.7	247.3	277.6	285.6	302.9	311.4	316.0	337.0	333.0	337.3
Department of Energy	5,873.8	6,009.7	6,063.1	6,668.0	7,044.2	7,411.9	7,553.8	7,733.4	7,562.0	8,010.2	8,589.8
Bonneville Power Administration	NA	NA	NA	NA	22.9	23.3	24.7	11.3	10.7	11.0	8.9
Civilian Radioactive Waste Management	NA	NA	NA	NA	62.5	75.8	78.9	53.5	52.9	12.4	28.9
Electricity Delivery and Energy Restoration	NA	NA	NA	NA	NA	NA	NA	80.3	133.5	94.2	81.7
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	739.8	682.3	583.9	557.3	430.6	661.6	641.7

TABLE 105. Federal obligations for research and development, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Environmental Management	NA	NA	NA	NA	160.3	69.4	42.8	49.8	34.0	21.4	21.4
Fossil Energy	NA	NA	NA	NA	363.3	639.3	526.1	566.4	435.7	427.8	417.7
National Nuclear Security Administration	NA	NA	NA	NA	3,302.4	3,475.4	3,600.2	3,618.8	3,557.3	3,447.2	3,606.4
Defense Programs	NA	NA	NA	NA	2,372.7	2,576.7	2,727.4	2,732.9	2,593.6	2,506.5	2,655.8
Fissile Materials Disposition	NA	NA	NA	NA	27.4	25.1	1.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	637.0	650.0	708.6	740.5	720.4	727.6	737.5
Nonproliferation and Verification	NA	NA	NA	NA	265.4	223.5	163.3	145.5	243.3	213.0	213.0
Nuclear Energy	NA	NA	NA	NA	42.5	47.1	74.3	84.5	89.0	77.7	392.2
Office of Intelligence	NA	NA	NA	NA	5.3	4.0	0.0	0.0	0.0	0.0	0.0
Office of Science	NA	NA	NA	NA	2,345.1	2,395.3	2,623.1	2,711.5	2,818.3	3,257.0	3,390.9
Department of Health and Human Services	13,901.7	15,914.7	18,425.9	21,341.9	24,011.6	26,399.1	28,133.2	28,745.5	28,765.6	28,752.5	28,813.6
Administration for Children and Families	23.5	24.9	27.3	28.4	23.3	20.9	20.1	38.6	14.4	14.7	15.1
Administration on Aging	10.4	18.5	2.8	3.7	3.7	0.0	3.0	2.9	2.9	0.0	0.0
Agency for Healthcare Research and Quality	146.5	182.3	198.8	269.7	298.7	308.7	303.7	318.7	318.7	318.7	329.6
Agency for Toxic Substances and Disease Registry	na	na	14.7	13.1	12.4	14.3	10.7	9.5	9.0	10.9	6.4
Centers for Disease Control and Prevention	343.6	433.3	505.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2	534.2
Centers for Medicare and Medicaid Services	51.2	49.7	61.5	138.0	117.0	73.6	77.6	77.3	62.4	57.4	33.7
Food and Drug Administration	142.9	130.8	144.2	151.6	136.3	138.3	132.3	142.1	143.3	142.6	137.8
Health Resources and Services Administration	12.9	12.8	35.6	51.0	54.1	43.2	47.4	52.9	23.6	23.7	23.5
National Institutes of Health	12,880.2	14,755.4	16,918.3	19,480.7	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	27,624.9	27,707.9
Office of the Secretary	17.0	17.7	19.8	27.4	17.4	22.5	21.1	24.8	26.8	25.4	25.4
Office of Public Health and Science	3.1	3.8	3.1	2.5	2.5	2.6	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	13.9	13.9	16.7	24.9	14.9	19.9	21.1	24.8	26.8	25.4	25.4
Substance Abuse and Mental Health Services Administration	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	54.3	0.0	0.0
Department of Homeland Security	na	na	na	na	na	NA	946.0	1,362.2	1,725.4	998.9	738.3
Science and Technology Directorate	na	na	na	na	na	NA	792.2	1,167.3	1,691.6	974.1	718.8
Transportation Security Administration	na	na	na	na	na	NA	137.9	180.5	11.7	2.6	0.0
U.S. Coast Guard	na	na	na	na	na	NA	15.0	13.4	21.2	21.3	18.6
U.S. Secret Service	na	na	na	na	na	NA	1.0	1.0	1.0	0.9	0.9
Department of Housing and Urban Development	28.0	57.0	45.6	52.9	45.3	39.0	46.6	43.5	33.5	37.4	40.5
Department of the Interior	532.0	641.5	579.9	619.7	632.8	596.7	604.6	589.5	603.0	588.5	582.1
Bureau of Reclamation	8.8	10.3	9.8	9.7	10.4	9.5	10.9	12.7	8.8	8.5	9.0
Geological Survey	464.1	579.1	506.1	572.6	565.0	550.2	552.2	546.2	561.5	553.5	547.1
Minerals Management Service	29.3	28.8	29.2	24.5	31.2	26.7	27.2	27.1	28.9	26.4	26.0
National Park Service <sup>a</sup>	29.7	23.4	34.7	12.9	26.2	10.3	14.3	3.5	3.8	0.0	0.0
Department of Justice	100.6	118.6	80.5	103.4	99.2	148.2	105.3	127.5	127.9	157.6	101.8
Bureau of Prisons	8.1	11.0	7.8	14.1	8.7	9.7	10.8	12.7	12.2	11.3	11.4
Federal Bureau of Investigation	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8	22.9

TABLE 105. Federal obligations for research and development, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Immigration and Naturalization Service	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na	na
Office of Justice Programs	56.7	71.1	62.2	69.3	56.9	95.7	60.5	81.3	81.5	75.4	67.5
Department of Labor	27.8	54.1	83.7	97.4	166.4	189.1	199.4	164.4	95.3	215.7	190.1
Bureau of Labor Statistics	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	22.6	22.8
Employee Benefits Security Administration	2.7	2.5	2.7	3.3	2.7	2.7	2.5	2.7	2.6	2.6	2.6
Employment and Training Administration	7.2	33.8	60.9	60.9	137.1	160.0	170.0	133.7	64.1	184.7	159.0
Occupational Safety and Health Administration	4.6	3.8	5.8	5.7	3.8	3.1	3.4	3.4	3.5	3.7	3.8
Office of the Secretary	0.2	1.0	1.3	5.3	1.2	1.8	0.2	0.5	0.3	0.3	0.3
Pension Benefit Guaranty Corporation	0.6	0.7	0.7	0.7	0.7	0.9	0.9	1.6	1.9	1.8	1.7
Department of State	0.9	1.5	1.5	2.2	2.3	2.3	3.0	3.3	4.2	4.3	4.8
Department of Transportation	566.1	667.0	467.4	674.4	815.5	693.3	629.3	418.4	819.2	824.3	838.3
Federal Aviation Administration	228.0	205.3	219.0	286.9	345.1	245.0	217.8	226.6	260.0	232.7	238.4
Federal Highway Administration	227.3	333.2	126.7	240.8	258.3	305.2	323.4	73.9	400.1	447.3	458.2
Federal Motor Carrier Safety Administration	na	na	3.9	11.4	3.7	6.8	6.4	6.6	5.3	8.7	6.6
Federal Railroad Administration	21.5	20.9	27.3	24.1	33.2	32.2	28.6	30.7	47.2	42.9	32.6
Federal Transit Administration	17.6	20.5	8.9	8.0	5.8	7.1	4.6	4.2	16.6	10.4	12.8
National Highway Traffic Safety Administration	41.6	50.4	50.6	58.3	59.6	65.4	6.7	40.1	57.5	57.5	65.7
Office of the Secretary	3.4	9.1	4.0	13.0	18.4	21.0	31.8	21.0	14.8	4.9	9.1
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	0.0	0.0	0.0	10.0	13.9	15.2	14.9	6.6
Research and Innovative Technology Administration	na	na	na	na	na	na	0.0	1.5	2.5	5.0	8.4
Research and Special Programs Administration	6.3	7.3	6.9	8.4	10.2	10.6	na	na	na	na	na
Transportation Security Administration	na	na	na	na	59.0	na	na	na	na	na	na
U.S. Coast Guard	20.4	20.3	20.0	23.5	22.0	na	na	na	na	na	na
Department of the Treasury	65.1	64.7	61.4	67.7	74.4	60.0	62.4	66.4	65.1	66.3	72.9
Bureau of Engraving and Printing	2.8	2.1	2.8	4.7	7.1	4.9	4.2	6.2	6.0	8.1	8.9
Internal Revenue Service	52.0	55.8	54.4	57.3	55.5	54.4	57.3	57.8	55.4	54.7	61.0
Office of Thrift Supervision	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na	na
U.S. Customs Service	9.0	5.3	1.8	4.0	10.6	na	na	na	na	na	na
U.S. Mint	0.1	0.8	1.3	0.8	0.3	0.7	1.0	2.4	3.7	3.5	3.0
U.S. Secret Service	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na	na
Department of Veterans Affairs	277.1	339.1	341.7	345.0	328.8	365.4	405.2	402.0	411.6	413.6	410.6
Other agencies											
Agency for International Development	212.0	203.0	218.8	267.0	269.8	286.0	264.8	257.5	255.0	255.0	255.0
Appalachian Regional Commission	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.8	1.0	0.7	0.7
Broadcasting Board of Governors	na	na	0.1	*	0.3	0.0	1.0	0.2	0.2	0.0	0.0
Consumer Product Safety Commission	0.0	0.0	0.0	0.1	0.0	0.0	na	na	na	na	na
Environmental Protection Agency	571.2	552.8	502.2	450.5	415.2	567.1	661.9	641.4	621.5	553.5	539.8
Federal Communications Commission	3.0	4.5	2.8	2.7	4.4	4.5	8.5	8.8	7.6	9.9	6.8

TABLE 105. Federal obligations for research and development, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Federal Trade Commission	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.7	2.0
Library of Congress	1.5	2.4	2.5	3.1	3.0	1.8	18.0	8.6	7.3	7.0	4.4
National Aeronautics and Space Administration	9,568.0	9,525.7	6,881.9	7,355.0	7,508.2	7,499.0	7,182.5	7,394.8	7,211.0	7,292.1	7,307.6
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,608.6	3,770.7	3,742.9	3,790.6	4,051.0	4,357.7
Nuclear Regulatory Commission	51.7	49.0	53.0	53.0	74.3	64.0	72.1	70.1	71.4	76.5	70.9
Smithsonian Institution	120.0	90.0	98.0	98.0	106.0	104.0	108.0	109.0	119.0	128.0	136.0
Social Security Administration	17.4	53.3	28.8	28.9	22.8	36.8	30.4	35.1	67.8	99.4	100.7
Tennessee Valley Authority	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.2	na	na	na	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	na	na	na	na	na	na	na	na	na
U.S. International Trade Commission	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

<sup>a</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration (NASA) reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 106. Federal obligations for R&amp;D plant, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	1,846.0	2,057.1	2,165.1	2,271.7	2,852.8	2,984.6	3,100.7	2,215.4	2,256.1	1,746.1	1,926.7
Departments											
Department of Agriculture	111.8	135.2	89.2	102.2	144.6	164.7	142.4	125.7	143.4	128.4	184.2
Agricultural Research Service	43.9	55.5	55.2	44.4	64.7	98.1	78.3	78.3	67.7	67.9	118.9
Animal and Plant Health Inspection Service	0.0	0.5	0.3	6.1	0.0	0.0	0.0	0.0	0.0	1.5	0.0
Cooperative State Research, Education, and Extension Service	67.6	76.2	32.2	46.9	61.5	63.0	60.5	42.6	71.3	56.5	63.2
Forest Service	0.3	2.9	1.6	4.9	18.4	3.6	3.6	4.9	4.3	2.5	2.0
Department of Commerce	5.2	11.2	9.1	15.4	15.7	21.0	25.4	31.2	77.7	84.5	43.4
National Institute of Standards and Technology	2.0	10.7	8.6	8.8	8.5	11.2	12.6	30.9	77.2	84.5	21.8
National Oceanic and Atmospheric Administration	3.2	0.5	0.5	6.6	7.3	9.9	12.8	0.3	0.5	0.0	21.6
Department of Defense	477.2	435.8	499.3	487.3	425.7	396.5	371.5	265.7	60.5	46.8	85.5
Defense agencies and activities	72.1	124.4	114.4	51.6	128.4	98.8	76.3	88.2	5.9	8.3	5.3
Department of the Air Force	270.3	143.7	250.2	322.2	152.3	179.7	231.6	99.3	37.8	24.4	39.1
Department of the Army	65.8	92.8	45.1	53.1	91.0	22.0	18.1	2.1	5.5	6.2	4.1
Department of the Navy	69.0	74.9	89.6	60.4	54.0	96.0	45.5	76.1	11.3	8.0	37.0
Department of Education	21.0	5.2	1.9	8.9	4.2	2.4	2.2	1.8	1.8	0.0	0.0
Department of Energy	772.2	915.0	873.0	916.0	1,220.1	1,320.8	1,461.5	911.8	745.1	705.9	729.3
Department of Health and Human Services	36.7	19.5	78.6	107.8	86.3	96.7	149.3	120.2	255.7	133.1	260.1
Alcohol, Drug Abuse, and Mental Health Administration	0.6	0.0	0.0	0.0	0.0	na	na	na	na	na	na
Food and Drug Administration	0.8	0.5	23.0	23.0	18.4	14.3	19.7	8.4	5.3	5.5	14.5
Health Resources and Services Administration	0.0	0.0	0.0	0.0	0.0	0.3	1.4	1.4	1.6	0.7	0.7
National Institutes of Health	35.3	19.0	55.6	84.8	67.8	82.1	128.2	110.5	248.8	126.9	244.9
Social Security Administration	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	na	na
Department of the Interior	11.8	9.4	10.8	14.0	22.2	18.4	23.1	9.0	6.7	1.9	7.2
Bureau of Mines	0.0	0.0	2.6	3.0	2.1	0.0	0.0	0.0	0.0	na	na
Geological Survey	0.8	0.8	1.3	1.3	3.3	4.3	3.8	6.4	5.4	1.2	5.0
Minerals Management Service	0.0	0.0	0.0	0.2	0.3	1.0	1.1	1.2	1.0	0.8	2.2
National Biological Service	na	na	na	na	na	na	0.0	1.4	0.3	na	na
U.S. Fish and Wildlife Service	11.0	8.6	6.9	9.5	16.6	13.1	18.3	0.0	0.0	0.0	0.0
Department of Justice	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Bureau of Investigation	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	11.2	13.9	15.5	21.8	18.4	25.3	32.3	40.9	28.8	31.8	19.0
Federal Aviation Administration	10.4	13.2	15.5	21.4	16.3	24.0	22.4	33.0	21.7	20.6	17.2
Federal Highway Administration	0.3	0.0	0.0	0.0	0.0	0.8	0.9	6.3	3.0	7.3	0.9
Federal Railroad Administration	0.0	0.4	0.0	0.0	1.7	0.1	1.6	1.1	3.5	3.4	0.6
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	0.0	0.3	0.0	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.3



TABLE 106. Federal obligations for R&amp;D plant, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Department of the Treasury	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1
U.S. Customs Service	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
U.S. Secret Service	*	*	*	*	*	*	*	*	*	*	0.0
Department of Veterans Affairs	5.9	19.5	11.0	3.3	3.4	5.7	3.4	11.7	7.2	3.8	31.3
Other agencies											
Agency for International Development	6.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Environmental Protection Agency	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.8	4.8	0.0	25.0
General Services Administration	0.0	0.0	0.0	18.8	22.6	6.5	1.0	0.3	5.1	0.1	*
National Aeronautics and Space Administration	309.4	428.2	519.5	527.0	723.6	817.8	749.4	515.3	624.8	417.4	333.8
National Science Foundation	61.3	56.9	53.6	39.3	159.6	101.6	130.4	171.9	289.6	187.2	203.8
Smithsonian Institution	2.9	0.7	3.4	4.8	1.5	3.8	5.0	5.0	5.0	5.0	4.0
Tennessee Valley Authority	0.3	0.4	0.2	4.9	4.8	3.2	1.0	0.0	0.0	0.0	0.0
U.S. Arms Control and Disarmament Agency	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 107. Federal obligations for R&D plant, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	1,813.3	2,045.7	4,492.8	4,069.8	4,304.7	4,266.5	3,994.2	3,771.1	2,124.8	2,198.2	1,866.6
Departments											
Department of Agriculture	89.8	131.1	86.6	117.0	118.8	96.4	179.4	134.2	172.6	161.1	20.5
Agricultural Research Service	86.3	118.5	74.6	104.0	103.8	81.2	160.5	119.1	159.1	140.0	0.0
Cooperative State Research, Education, and Extension Service	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	2.6	12.0	12.0	13.0	15.0	15.2	18.9	15.2	13.5	21.1	20.5
Department of Commerce	21.4	19.6	200.5	23.8	29.1	59.1	89.7	60.8	74.6	106.2	132.4
National Institute of Standards and Technology	21.4	19.6	200.5	23.8	29.1	49.1	37.4	44.3	43.3	67.7	93.9
National Oceanic and Atmospheric Administration	0.0	0.0	0.0	0.1	0.0	10.0	52.3	16.5	31.3	38.5	38.5
Department of Defense	65.8	107.6	48.2	147.4	365.1	251.4	274.7	272.8	63.3	86.1	39.0
Defense agencies and activities	1.1	20.2	5.1	4.7	284.1	137.9	121.1	82.1	34.8	57.8	13.0
Department of the Air Force	26.2	47.2	5.5	31.9	23.5	6.8	19.5	107.0	11.3	13.7	10.6
Materiel Command	na	na	na	na	5.4	6.8	19.5	107.0	11.3	13.7	10.6
Space Command	na	na	na	na	18.1	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	3.9	4.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Navy	34.6	35.6	37.5	110.7	57.5	106.6	134.1	83.7	17.2	14.7	15.4
Department of Energy	727.1	866.2	810.8	983.4	1,028.0	1,024.1	1,006.8	863.3	778.2	888.9	835.0
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	4.9	6.2	19.8	19.4	26.1	107.0	7.0
Fossil Energy	NA	NA	NA	NA	10.2	4.5	6.2	6.3	19.4	11.6	0.7
National Nuclear Security Administration	NA	NA	NA	NA	425.8	447.9	436.1	303.1	304.6	218.3	136.2
Defense Programs	NA	NA	NA	NA	397.3	419.9	407.8	268.4	271.6	196.8	96.8
Fissile Materials Disposition	NA	NA	NA	NA	*	*	0.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	28.5	28.0	28.4	34.7	33.0	21.5	39.4
Nuclear Energy	NA	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	0.0	30.0
Office of Science	NA	NA	NA	NA	587.1	565.5	544.7	534.4	428.1	552.0	661.1
Department of Health and Human Services	286.3	252.8	219.6	300.0	247.5	815.7	430.6	427.0	360.9	275.0	146.7
Centers for Disease Control and Prevention	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	143.9	68.7	0.0
Food and Drug Administration	28.1	2.6	2.5	8.8	13.4	7.2	8.5	0.7	3.9	2.3	2.3
Health Resources and Services Administration	0.9	0.6	0.6	0.6	0.6	0.3	0.6	0.5	0.6	0.6	0.6
National Institutes of Health	257.3	249.6	216.5	290.6	233.4	808.2	421.4	425.7	212.6	203.4	143.8
Department of Homeland Security	na	na	na	na	na	NA	117.2	91.7	131.8	109.9	81.3
Science and Technology Directorate	na	na	na	na	na	NA	116.3	90.7	131.4	108.9	80.3
U.S. Coast Guard	na	na	na	na	na	NA	1.0	1.0	0.3	1.0	1.0
Department of the Interior	1.5	1.4	1.3	2.4	2.1	3.6	7.9	7.5	5.5	4.6	6.4
Bureau of Reclamation	0.0	0.0	0.0	0.0	0.0	1.5	5.3	4.6	2.2	2.0	4.4
Minerals Management Service	1.5	1.4	1.3	2.4	2.1	2.1	2.6	2.9	3.2	2.6	2.1
Department of Transportation	17.6	14.6	11.9	16.0	51.7	18.5	17.7	18.3	18.7	19.3	19.1
Federal Aviation Administration	14.3	14.3	11.5	13.7	14.5	17.6	16.4	17.2	16.9	17.4	17.2

TABLE 107. Federal obligations for R&amp;D plant, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Federal Highway Administration	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	1.1	*	0.1	2.1	0.9	0.9	1.3	1.1	1.8	1.9	1.9
Transportation Security Administration	na	na	na	na	36.0	na	na	na	na	na	na
U.S. Coast Guard	0.3	0.3	0.3	0.3	0.3	na	na	na	na	na	na
Department of the Treasury	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	3.7	3.5	3.0
U.S. Customs Service	0.1	0.1	0.1	0.0	0.0	na	na	na	na	na	na
U.S. Mint	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.5	3.0
Department of Veterans Affairs	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4
Other agencies											
Environmental Protection Agency	66.0	116.0	21.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
General Services Administration	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	350.0	359.5	2,873.0	2,169.3	2,218.3	1,659.2	1,471.6	1,533.7	39.0	39.2	39.7
National Science Foundation	184.3	173.5	216.6	285.2	240.8	335.2	395.4	355.5	448.9	471.5	497.9
Smithsonian Institution	3.0	3.0	3.0	3.0	3.0	3.0	2.8	6.1	27.4	32.6	45.3

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration (NASA) reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 108. Federal obligations for research, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	17,940.5	18,650.1	20,765.5	21,622.4	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3
Departments											
Department of Agriculture	918.9	985.2	1,002.2	1,061.3	1,175.5	1,261.0	1,251.7	1,322.5	1,298.8	1,220.0	1,290.1
Agricultural Cooperative Service	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na	na
Agricultural Marketing Service	1.2	1.3	1.3	2.2	3.7	4.1	4.1	4.2	4.2	4.2	4.2
Agricultural Research Service	454.6	479.4	492.1	512.3	550.8	583.2	574.3	624.4	628.6	621.2	625.7
Animal and Plant Health Inspection Service	4.9	5.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	270.7	298.4	307.3	324.2	376.8	418.2	418.6	429.0	417.7	362.4	433.5
Economic Research Service	44.8	48.1	49.5	50.5	54.4	58.9	58.9	55.2	53.8	53.0	53.0
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.3	1.4
Forest Service	122.9	131.5	127.5	153.8	170.2	175.8	177.2	189.8	187.7	172.3	165.9
Grain Inspection, Packers, and Stockyards Administration	0.7	0.6	0.8	0.2	0.7	1.5	1.8	1.8	0.3	0.5	0.6
Human Nutrition Information Service	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0	na	na	na
National Agricultural Statistics Service	3.4	3.6	2.9	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.4
Office of International Cooperation and Development	5.3	4.8	2.3	3.4	3.0	1.5	1.5	0.0	na	na	na
Office of Transportation	0.9	0.9	na	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	2.4	1.6	1.4	2.5
Department of Commerce	338.6	342.3	351.0	377.0	449.7	595.9	582.1	718.3	892.3	850.6	808.1
Economic Development Administration	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6	0.5	0.6	0.6
National Institute of Standards and Technology	89.4	98.9	105.6	111.8	124.3	149.4	172.9	207.3	372.1	354.8	331.5
National Oceanic and Atmospheric Administration	234.4	228.2	234.6	252.4	315.6	438.7	401.7	502.7	510.4	480.8	468.8
National Telecommunications and Information Administration	7.0	7.3	6.9	6.8	3.6	4.0	4.2	4.8	6.4	11.9	3.8
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	0.0
U.S. Census Bureau	2.8	3.8	3.0	4.9	4.8	3.4	3.3	2.8	2.9	2.5	3.4
Department of Defense	3,347.6	3,239.1	3,656.1	3,529.2	3,717.9	4,073.4	4,783.5	4,240.6	4,198.4	3,995.5	3,809.8
Defense agencies and activities	866.1	964.5	1,242.1	1,165.1	1,153.0	1,457.3	1,881.0	1,726.6	1,632.0	1,549.3	1,397.5
Department of the Air Force	784.8	773.1	807.4	776.3	830.4	790.5	887.8	814.3	834.5	882.3	816.6
Department of the Army	909.9	753.7	823.4	780.2	860.5	932.7	1,018.6	852.6	852.1	670.4	710.0
Department of the Navy	786.7	747.8	783.2	807.6	874.0	892.8	996.1	847.1	880.0	893.5	885.7
Department of Education	106.9	111.0	122.0	130.3	131.7	127.0	133.6	136.8	138.4	135.5	138.1
Department of Energy	2,097.9	2,235.4	2,431.7	2,570.5	3,273.6	3,412.5	3,440.2	3,282.5	3,459.9	3,362.2	3,567.7
Department of Health and Human Services	6,021.9	6,497.0	7,088.4	7,467.1	8,162.5	7,945.5	9,192.6	9,736.4	10,076.0	10,545.9	11,228.1
Administration for Children and Families	na	na	na	na	13.5	34.3	18.5	10.4	11.2	12.6	17.4
Administration on Aging	na	na	na	na	2.9	2.5	2.7	3.5	3.0	0.2	0.2
Agency for Healthcare Research and Quality	na	na	na	44.2	93.0	97.8	105.6	142.0	124.0	116.0	134.1

TABLE 108. Federal obligations for research, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Alcohol, Drug Abuse, and Mental Health Administration	473.3	552.4	692.6	801.2	923.0	na	na	na	na	na	na
Centers for Disease Control and Prevention	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0
Centers for Medicare and Medicaid Services	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6
Food and Drug Administration	85.0	91.0	99.0	99.0	125.0	135.7	154.5	169.4	170.5	170.8	158.6
Health Resources and Services Administration	9.3	10.0	10.5	11.9	11.0	10.1	9.6	10.6	12.2	11.1	13.1
Human Development Services	9.4	7.1	8.5	7.7	na	na	na	na	na	na	na
National Institutes of Health	5,314.7	5,680.7	6,061.8	6,335.8	6,783.0	7,398.7	8,638.5	9,079.7	9,333.6	9,876.9	10,519.7
Office of the Assistant Secretary for Health	18.9	19.4	25.6	5.8	9.6	6.0	0.0	0.0	0.0	na	na
Office of the Secretary	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	9.0	18.4
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	na	na	na	9.0	18.4
Social Security Administration	9.8	14.7	15.8	11.8	10.2	33.0	24.5	22.2	20.4	na	na
Department of Housing and Urban Development	5.5	6.3	6.1	6.6	9.4	8.8	8.1	13.7	14.2	11.2	11.3
Department of the Interior	382.1	392.5	441.9	475.2	553.4	570.6	580.1	650.2	532.4	542.1	552.7
Bureau of Land Management	2.1	2.2	2.0	2.1	5.9	5.9	8.0	0.0	0.0	0.0	0.0
Bureau of Mines	85.2	86.2	93.2	89.9	99.0	102.9	105.0	95.4	0.0	na	na
Bureau of Reclamation	10.2	3.7	3.5	5.3	7.8	10.7	7.4	5.5	6.0	4.9	5.4
Geological Survey	216.5	225.3	266.9	293.2	338.4	344.5	343.9	355.4	347.9	495.1	500.7
Minerals Management Service	1.0	1.2	2.2	1.9	2.7	3.8	5.8	20.6	20.0	21.9	20.6
National Biological Service	na	na	na	na	na	na	0.0	149.0	138.8	na	na
National Park Service	18.5	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	26.0
Office of Surface Mining Reclamation and Enforcement	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0	0.0	0.0	0.0
Office of the Secretary	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	47.6	53.5	53.9	62.0	71.0	71.2	71.2	0.0	0.0	0.0	0.0
Department of Justice	19.8	17.4	17.5	19.9	21.1	20.3	25.6	25.9	25.8	32.0	32.5
Bureau of Prisons	2.2	2.1	2.1	1.8	1.9	2.5	2.5	2.1	3.2	3.1	1.9
Drug Enforcement Administration	0.7	0.6	0.5	0.4	0.9	0.1	*	0.1	0.0	*	*
Immigration and Naturalization Service	0.2	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
Office of Justice Programs	16.7	14.4	14.8	17.3	17.9	17.3	22.7	23.3	22.2	28.7	30.2
Office of Legal Policy	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	20.4	26.7	22.2	21.6	24.3	23.8	19.0	19.6	29.9	26.7	21.7
Bureau of Labor Statistics	6.5	7.0	7.0	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6
Employee Benefits Security Administration	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0
Employment and Training Administration	5.4	6.8	6.1	6.0	6.6	5.6	3.5	3.1	4.2	2.6	1.5
Employment Standards Administration	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.3	0.4	0.3	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5
Office of the Secretary	1.8	5.2	2.5	3.3	4.7	4.1	2.9	3.1	2.9	1.8	0.1
Pension Benefit Guaranty Corporation	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.3	0.1	0.1	0.1

TABLE 108. Federal obligations for research, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Department of State	3.0	4.2	4.7	4.7	5.9	5.6	5.3	0.4	0.5	0.9	1.0
Department of Transportation	68.8	91.2	120.5	119.2	114.6	156.9	226.1	273.4	370.7	375.2	381.2
Federal Aviation Administration	11.1	13.3	23.6	26.1	24.0	30.1	59.8	79.5	83.3	130.6	159.4
Federal Highway Administration	20.7	43.7	56.6	57.6	46.1	73.2	91.7	134.2	203.1	173.9	149.2
Federal Railroad Administration	10.4	8.2	7.5	8.5	13.2	18.9	20.9	16.1	22.5	21.3	18.2
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	10.9	7.8	10.9	5.6	6.0
Maritime Administration	3.3	0.5	0.0	0.9	1.7	1.8	1.7	1.7	2.5	0.0	0.0
National Highway Traffic Safety Administration	18.9	19.1	26.2	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4
Office of the Secretary	0.4	0.7	1.3	1.7	0.6	0.7	0.6	0.6	0.6	0.0	0.0
Research and Special Programs Administration	0.2	0.4	0.7	2.4	1.4	1.4	0.5	2.6	3.2	5.6	6.3
U.S. Coast Guard	3.7	5.4	4.6	5.1	6.4	5.0	8.2	5.6	4.9	5.0	5.7
Department of the Treasury	17.4	15.9	16.3	18.7	24.1	20.8	11.1	9.2	48.9	50.5	50.9
Bureau of Engraving and Printing	2.8	1.2	1.4	1.4	2.7	1.8	3.2	1.6	1.3	1.6	1.6
Internal Revenue Service	14.1	13.7	14.1	16.5	17.5	17.5	6.5	6.1	45.8	47.5	47.9
Office of Thrift Supervision	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5	0.6
U.S. Customs Service	0.2	0.7	0.4	0.4	0.5	0.2	0.1	0.5	0.7	0.5	0.4
U.S. Secret Service	0.2	0.4	0.4	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.4
Department of Veterans Affairs	190.3	196.1	213.7	215.6	193.8	200.9	207.4	223.5	218.8	235.3	231.0
Other agencies											
Advisory Commission on Intergovernmental Relations	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	na	na
Agency for International Development	154.0	135.1	219.1	305.2	357.4	300.1	359.2	216.2	272.7	205.0	176.7
Appalachian Regional Commission	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9
Consumer Product Safety Commission	0.6	0.1	0.5	0.4	0.9	0.8	0.8	0.1	0.0	0.0	0.1
Environmental Protection Agency	277.2	267.9	273.3	315.2	353.1	404.3	361.5	402.3	401.6	380.8	409.1
Federal Communications Commission	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1
Federal Trade Commission	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7
General Services Administration	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.5	1.6	1.6	1.5	1.7	1.8	1.8	1.9	2.1	2.2	0.5
National Aeronautics and Space Administration	2,269.2	2,331.6	2,878.8	3,060.7	3,371.2	3,229.3	3,548.7	3,840.6	4,046.1	3,878.0	4,184.9
National Archives and Records Administration	0.7	0.5	0.2	0.3	0.6	0.6	0.3	0.3	0.1	0.1	0.1
National Science Foundation	1,470.5	1,532.8	1,670.4	1,689.5	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,248.5
Nuclear Regulatory Commission	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1
Office of Thrift Supervision	3.4	3.4	4.1	4.1	na	na	na	na	na	na	na
Smithsonian Institution	71.5	75.1	80.2	84.0	98.0	98.0	102.0	124.2	124.0	127.0	130.0
Social Security Administration	na	na	na	na	na	na	na	na	na	11.5	13.6
Tennessee Valley Authority	17.7	18.5	14.6	21.7	18.8	24.4	27.9	25.9	26.4	4.2	4.0

TABLE 108. Federal obligations for research, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
U.S. Arms Control and Disarmament Agency	0.4	0.8	1.2	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2
U.S. Information Agency	0.0	0.1	0.0	0.5	0.1	0.0	1.1	0.6	0.3	0.1	0.2
U.S. International Trade Commission	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 109. Federal obligations for research, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	51,071.8	53,357.8	53,738.2	53,535.7	55,074.6	54,708.7
Departments											
Department of Agriculture	1,333.9	1,488.1	1,611.5	1,803.7	1,810.4	1,869.1	1,918.8	2,002.8	2,030.5	2,087.6	1,806.7
Agricultural Marketing Service	4.0	4.0	4.3	4.1	4.4	4.1	7.9	7.7	6.3	6.6	6.8
Agricultural Research Service	689.7	778.1	805.1	904.9	964.4	966.4	988.3	997.0	1,021.4	962.8	919.4
Cooperative State Research, Education, and Extension Service	386.4	462.5	535.0	615.1	546.7	568.1	585.7	651.6	645.1	743.2	536.2
Economic Research Service	71.5	62.5	64.2	65.6	67.0	68.4	70.8	74.0	75.0	75.2	82.5
Food Safety Inspection Service	0.1	0.3	2.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	1.4	1.4	1.4	1.4	1.4	1.6	1.6	1.5	0.9	0.9	0.9
Forest Service	172.3	169.4	191.8	203.8	217.6	251.1	254.6	254.6	264.0	282.9	245.1
Grain Inspection, Packers, and Stockyards Administration	0.5	2.7	0.7	0.0	0.0	0.0	0.0	6.7	7.1	6.7	7.9
National Agricultural Statistics Service	3.3	3.6	3.9	4.2	4.6	5.5	6.1	6.1	6.5	6.7	6.9
Rural Business-Cooperative Service	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	2.6	1.1
Department of Commerce	807.0	848.0	895.9	828.3	994.5	1,054.1	887.9	889.4	840.2	794.4	840.4
Economic Development Administration	0.6	0.6	0.6	0.6	0.5	0.5	0.2	0.5	0.2	1.1	0.0
National Institute of Standards and Technology	305.4	309.0	308.6	336.8	354.6	381.0	359.7	357.6	355.5	409.7	411.3
National Oceanic and Atmospheric Administration	492.1	528.8	578.5	478.9	629.3	665.6	519.9	520.3	471.8	370.7	417.0
National Telecommunications and Information Administration	3.8	3.8	4.0	4.2	4.1	6.4	6.3	6.9	6.7	7.1	7.1
U.S. Census Bureau	5.2	5.9	4.3	7.9	6.0	0.6	1.8	4.2	6.0	5.8	5.0
Department of Defense	3,969.9	4,142.3	4,920.4	6,806.2	6,265.4	5,815.6	5,697.9	5,931.5	5,751.9	6,856.1	6,083.1
Defense agencies and activities	1,593.0	1,655.9	1,899.3	2,504.3	2,653.5	2,212.1	1,878.6	1,752.0	1,740.6	2,382.1	2,378.9
Department of the Air Force	736.9	764.8	1,096.5	2,190.9	1,357.4	1,329.4	1,210.5	1,246.4	1,351.1	1,481.7	1,388.7
Materiel Command	na	na	na	na	1,332.3	1,271.3	1,210.5	1,246.4	1,351.1	1,481.7	1,388.7
Space Command	na	na	na	na	25.1	58.0	0.0	0.0	0.0	0.0	0.0
Department of the Army	817.8	848.4	970.9	1,088.0	1,111.5	1,117.5	1,471.1	1,700.2	1,452.6	1,628.1	1,154.8
Department of the Navy	822.2	873.2	953.7	1,023.0	1,142.9	1,156.6	1,137.7	1,232.9	1,207.6	1,364.2	1,160.6
Department of Education	148.7	148.6	163.5	183.2	183.6	201.6	210.8	214.0	215.6	206.6	209.5
Department of Energy	3,787.5	3,919.8	4,100.9	4,593.2	5,062.5	5,260.6	5,498.0	5,703.8	5,720.3	6,055.4	6,486.7
Bonneville Power Administration	NA	NA	NA	NA	14.3	14.7	15.4	8.9	9.8	8.5	6.7
Civilian Radioactive Waste Management	NA	NA	NA	NA	62.5	75.8	78.9	53.5	52.9	12.4	28.9
Electricity Delivery and Energy Restoration	NA	NA	NA	NA	NA	NA	NA	66.5	93.4	65.9	57.2
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	293.6	310.5	266.9	271.8	211.3	342.9	367.6
Environmental Management	NA	NA	NA	NA	86.9	20.8	12.8	14.9	10.2	6.4	6.4
Fossil Energy	NA	NA	NA	NA	145.0	255.8	231.2	216.0	218.1	206.9	217.2
National Nuclear Security Administration	NA	NA	NA	NA	2,072.6	2,158.3	2,200.4	2,277.4	2,218.7	2,087.3	2,203.6
Defense Programs	NA	NA	NA	NA	1,893.9	2,009.9	2,105.8	2,193.4	2,076.2	1,950.9	2,067.2



TABLE 109. Federal obligations for research, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Nonproliferation and Verification	NA	NA	NA	NA	178.7	148.5	94.6	84.0	142.5	136.4	136.4
Nuclear Energy	NA	NA	NA	NA	42.5	29.4	69.4	83.2	87.5	68.1	208.2
Office of Science	NA	NA	NA	NA	2,345.1	2,395.3	2,623.1	2,711.5	2,818.3	3,257.0	3,390.9
Department of Health and Human Services	12,018.5	13,714.6	17,913.1	20,648.7	23,230.9	26,287.8	27,991.2	28,617.1	28,679.6	28,720.6	28,781.1
Administration for Children and Families	23.5	24.9	27.3	28.4	23.3	20.9	20.1	38.6	14.4	14.7	15.1
Administration on Aging	2.4	2.4	2.8	3.7	3.7	0.0	3.0	2.9	2.9	0.0	0.0
Agency for Healthcare Research and Quality	138.8	171.3	186.8	248.1	274.8	284.0	279.4	293.2	293.2	293.2	303.2
Agency for Toxic Substances and Disease Registry	na	na	14.7	13.1	12.4	14.3	10.7	9.4	9.0	10.9	6.4
Centers for Disease Control and Prevention	343.6	433.3	505.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2	534.2
Centers for Medicare and Medicaid Services	51.2	49.7	61.5	138.0	117.0	73.6	77.6	77.3	62.4	57.4	33.7
Food and Drug Administration	142.9	130.8	144.2	151.6	136.3	138.3	132.3	142.1	143.3	142.6	137.8
Health Resources and Services Administration	12.9	12.8	35.6	16.1	17.3	16.5	16.9	17.6	17.3	17.3	17.3
National Institutes of Health	11,289.2	12,875.5	16,918.3	19,480.7	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	27,624.9	27,707.9
Office of the Secretary	13.9	13.9	16.7	24.9	14.9	19.9	21.1	24.8	26.8	25.4	25.4
Office of the Assistant Secretary, Planning and Evaluation	13.9	13.9	16.7	24.9	14.9	19.9	21.1	24.8	26.8	25.4	25.4
Department of Homeland Security	na	na	na	na	na	NA	413.4	597.2	606.2	431.5	319.8
Science and Technology Directorate	na	na	na	na	na	NA	284.5	411.0	595.6	423.6	312.5
Transportation Security Administration	na	na	na	na	na	NA	122.8	180.5	2.6	0.0	0.0
U.S. Coast Guard	na	na	na	na	na	NA	5.1	4.6	7.1	7.1	6.3
U.S. Secret Service	na	na	na	na	na	NA	1.0	1.0	1.0	0.9	0.9
Department of Housing and Urban Development	9.2	19.1	15.5	17.9	16.2	14.0	17.5	16.5	11.5	12.8	13.9
Department of the Interior	502.9	610.0	548.5	572.8	557.4	533.5	546.6	531.3	551.1	524.6	521.0
Bureau of Reclamation	6.6	7.7	7.4	7.3	3.6	3.3	3.8	4.4	3.1	3.0	3.2
Geological Survey	437.2	550.2	477.1	531.1	504.9	497.0	504.1	496.6	515.5	495.2	491.9
Minerals Management Service	29.3	28.8	29.2	24.5	31.2	26.7	27.2	27.1	28.9	26.4	26.0
National Park Service <sup>a</sup>	29.7	23.4	34.7	10.0	17.6	6.5	11.5	3.2	3.7	0.0	0.0
Department of Justice	42.0	54.0	49.6	61.8	49.2	56.6	47.1	57.6	53.0	49.9	43.5
Bureau of Prisons	4.3	7.4	3.4	8.5	3.6	4.8	5.0	4.4	2.7	2.8	2.8
Office of Justice Programs	37.7	46.6	46.1	53.3	45.5	51.9	42.1	53.3	50.2	47.1	40.7
Department of Labor	22.1	27.7	46.1	57.1	45.5	36.3	37.5	36.0	30.1	31.6	31.1
Bureau of Labor Statistics	12.4	12.4	12.3	21.5	20.7	20.6	22.4	22.5	22.8	22.6	22.8
Employee Benefits Security Administration	2.7	2.5	2.7	3.3	2.7	2.7	2.5	2.7	2.6	2.6	2.6
Employment and Training Administration	2.2	8.8	25.0	25.0	17.8	9.0	9.0	6.7	0.7	2.2	1.5
Occupational Safety and Health Administration	4.6	3.8	5.8	5.7	3.8	3.1	3.4	3.4	3.5	3.7	3.8
Office of the Secretary	0.1	0.2	0.3	1.5	0.3	0.8	0.1	0.5	0.3	0.3	0.3
Pension Benefit Guaranty Corporation	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Department of State	0.9	1.5	1.5	2.2	2.3	2.3	3.0	3.3	4.2	4.3	4.8

TABLE 109. Federal obligations for research, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Department of Transportation	401.0	476.7	344.4	445.7	530.9	432.9	360.2	254.6	535.2	553.0	584.9
Federal Aviation Administration	151.6	142.3	164.4	186.1	244.8	135.6	118.3	128.3	136.6	131.3	140.0
Federal Highway Administration	169.6	247.8	92.9	158.3	138.6	192.8	201.9	51.7	288.4	307.4	332.5
Federal Motor Carrier Safety Administration	na	na	2.8	8.0	0.2	6.8	6.4	6.6	5.3	8.7	6.6
Federal Railroad Administration	21.2	20.3	24.2	23.8	29.7	28.7	24.3	25.7	40.8	40.0	27.7
Federal Transit Administration	7.4	4.8	0.0	0.0	0.6	0.0	*	0.3	3.6	4.0	3.8
National Highway Traffic Safety Administration	41.6	50.4	50.6	58.3	59.6	65.4	6.7	40.1	57.5	57.5	65.7
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	0.0	0.0	0.0	2.6	1.8	2.2	2.8	2.2
Research and Innovative Technology Administration	na	na	na	na	na	na	0.0	0.1	0.7	1.3	6.3
Research and Special Programs Administration	4.6	6.0	4.5	5.2	3.7	3.5	na	na	na	na	na
Transportation Security Administration	na	na	na	na	47.2	na	na	na	na	na	na
U.S. Coast Guard	5.1	5.1	5.0	5.9	6.4	na	na	na	na	na	na
Department of the Treasury	52.6	50.7	51.2	63.2	61.8	58.7	61.3	63.4	60.7	61.9	68.8
Bureau of Engraving and Printing	2.7	2.0	2.7	4.7	5.3	4.3	4.0	5.6	5.3	7.1	7.8
Internal Revenue Service	47.9	48.0	47.4	56.6	55.5	54.4	57.3	57.8	55.4	54.7	61.0
Office of Thrift Supervision	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na	na
U.S. Customs Service	0.8	0.0	0.0	1.0	*	na	na	na	na	na	na
U.S. Secret Service	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na	na
Department of Veterans Affairs	269.1	332.3	334.6	338.1	314.3	349.6	383.9	382.7	391.9	393.8	390.9
Other agencies											
Agency for International Development	172.9	163.8	189.2	239.2	247.6	262.4	241.4	216.7	215.0	215.0	215.0
Appalachian Regional Commission	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.8	1.0	0.7	0.7
Broadcasting Board of Governors	na	na	0.1	*	0.3	0.0	1.0	0.2	0.2	0.0	0.0
Consumer Product Safety Commission	0.0	0.0	0.0	0.1	0.0	0.0	na	na	na	na	na
Environmental Protection Agency	477.2	457.0	410.7	350.7	323.7	461.8	536.8	525.4	504.8	449.4	438.0
Federal Communications Commission	3.0	4.5	2.8	2.7	4.4	4.5	4.1	5.1	7.1	7.7	6.3
Federal Trade Commission	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.7	2.0
Library of Congress	0.5	0.5	0.6	2.0	1.7	0.5	16.4	1.6	3.3	0.3	0.3
National Aeronautics and Space Administration	4,413.7	4,357.9	3,964.0	4,471.8	4,838.5	4,553.5	4,499.4	3,729.0	3,271.8	3,260.6	3,194.7
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	2,289.3	2,506.0	2,725.5	3,043.5	3,260.0	3,608.6	3,770.7	3,742.9	3,790.6	4,051.0	4,357.7
Nuclear Regulatory Commission	51.7	49.0	53.0	53.0	74.3	64.0	72.1	70.1	71.4	76.5	70.9
Smithsonian Institution	120.0	90.0	98.0	98.0	106.0	104.0	108.0	109.0	119.0	128.0	136.0
Social Security Administration	17.4	53.3	28.8	28.9	22.8	36.8	30.4	35.1	67.8	99.4	100.7
Tennessee Valley Authority	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 109. Federal obligations for research, by agency: FY 1998–2008

(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
U.S. Arms Control and Disarmament Agency	1.2	na	na	na	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	na	na	na	na	na	na	na	na	na
U.S. International Trade Commission	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

<sup>a</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 110. Federal obligations for basic research, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9
Departments											
Department of Agriculture	445.5	480.6	484.9	519.2	557.6	595.2	615.9	606.3	595.0	550.0	590.1
Agricultural Marketing Service	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agricultural Research Service	253.4	271.1	282.7	294.0	309.7	326.1	341.0	366.5	369.0	364.6	364.4
Cooperative State Research, Education, and Extension Service	132.8	145.8	142.6	153.7	170.4	189.6	192.5	194.7	186.0	148.7	189.9
Economic Research Service	6.3	6.7	6.9	7.1	7.6	8.2	10.6	9.9	5.4	5.3	5.3
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.5	0.9	0.9
Forest Service	49.4	51.6	50.0	60.3	66.6	68.9	69.4	33.3	32.9	29.3	28.4
National Agricultural Statistics Service	1.1	1.2	1.0	0.9	1.1	1.2	1.3	1.3	1.3	1.2	1.1
Office of International Cooperation and Development	1.9	3.6	1.7	2.6	2.2	1.2	1.2	0.0	na	na	na
Office of Transportation	0.5	0.5	na	na	na	na	na	na	na	na	na
Department of Commerce	25.8	30.9	29.1	31.4	34.3	34.5	37.2	40.1	39.3	37.5	39.2
National Institute of Standards and Technology	25.1	26.3	27.9	28.6	31.9	33.6	36.5	39.8	38.9	36.7	38.2
National Oceanic and Atmospheric Administration	0.0	3.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
U.S. Census Bureau	0.7	1.3	1.2	2.8	2.4	0.9	0.4	0.3	0.3	0.9	1.1
Department of Defense	907.6	876.9	947.9	947.6	994.2	1,098.9	1,268.2	1,200.7	1,248.3	1,137.9	1,022.9
Defense agencies and activities	114.8	173.0	203.9	200.5	208.3	294.4	411.8	344.9	413.3	338.2	309.2
Department of the Air Force	221.6	196.4	202.8	197.0	209.2	205.8	218.7	242.4	206.8	227.9	188.1
Department of the Army	217.0	165.7	187.2	185.1	188.6	204.9	215.7	213.3	218.8	195.1	178.3
Department of the Navy	354.3	341.8	354.0	365.0	388.0	393.8	422.0	400.1	409.4	376.7	347.2
Department of Education	3.1	4.4	4.4	4.9	8.6	7.5	5.3	5.5	5.5	3.5	3.0
Department of Energy	1,068.5	1,184.8	1,410.9	1,504.8	1,686.5	1,736.4	1,754.8	1,603.2	1,634.4	1,929.7	1,970.9
Department of Health and Human Services	3,827.9	4,081.4	4,388.0	4,649.0	5,050.1	5,058.7	5,696.7	5,884.0	6,061.1	6,504.6	6,851.8
Agency for Healthcare Research and Quality	na	na	na	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
Alcohol, Drug Abuse, and Mental Health Administration	232.2	265.8	308.0	386.2	459.1	na	na	na	na	na	na
Health Resources and Services Administration	1.3	1.1	1.2	1.2	1.5	1.3	1.1	0.8	1.0	1.0	1.1
National Institutes of Health	3,575.5	3,795.1	4,053.3	4,261.7	4,589.5	5,057.4	5,695.6	5,882.4	6,060.0	6,503.6	6,850.7
Office of the Assistant Secretary for Health	18.9	19.4	25.6	0.0	0.0	0.0	0.0	0.0	0.0	na	na
Department of the Interior	134.9	126.5	188.9	205.4	229.3	230.9	230.3	83.2	55.2	56.0	56.4
Bureau of Land Management	0.0	0.0	0.0	0.0	1.1	0.6	0.6	0.0	0.0	0.0	0.0
Bureau of Mines	45.6	32.1	43.9	40.6	42.8	43.7	44.6	25.4	0.0	na	na
Bureau of Reclamation	0.1	0.1	*	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Geological Survey	84.9	89.5	140.2	159.1	179.1	180.1	178.0	43.5	41.6	55.5	55.9
National Biological Service	na	na	na	na	na	na	0.0	13.7	13.0	na	na
National Park Service	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.5	0.5	0.5
U.S. Fish and Wildlife Service	4.3	4.8	4.8	5.6	6.2	6.4	6.4	0.0	0.0	0.0	0.0

TABLE 110. Federal obligations for basic research, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Department of Justice	8.1	7.6	6.8	8.8	6.4	5.3	5.0	5.9	8.1	12.6	12.4
Office of Justice Programs	8.1	7.6	6.8	8.8	6.4	5.3	5.0	5.9	8.1	12.6	12.4
Department of Labor	1.4	0.4	0.3	0.3	0.3	0.2	5.6	5.8	13.3	11.5	11.3
Bureau of Labor Statistics	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.6	13.3	11.5	11.3
Employment and Training Administration	1.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	0.0	0.0	0.0	0.0	0.0	*	0.0	0.0	0.0	0.0	0.0
Department of State	2.6	3.1	3.4	3.5	4.6	4.9	4.8	0.0	0.0	0.0	0.0
Department of Transportation	0.2	0.0	0.0	0.0	0.0	1.2	1.7	3.0	46.9	38.4	37.5
Federal Highway Administration	0.0	0.0	0.0	0.0	0.0	1.2	1.7	3.0	46.9	38.4	37.5
Maritime Administration	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of the Treasury	4.7	4.8	3.4	3.4	3.6	3.6	6.5	*	*	*	*
Bureau of Engraving and Printing	0.1	0.1	0.5	0.0	0.0	0.0	0.0	*	*	*	*
Internal Revenue Service	4.4	4.7	2.9	3.4	3.6	3.6	6.5	0.0	0.0	0.0	0.0
U.S. Secret Service	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	17.2	17.3	16.6	16.2	16.1	15.7	13.3	14.4	12.4	12.5	13.6
Other agencies											
Agency for International Development	2.8	3.0	3.1	5.0	5.7	5.8	8.4	1.8	2.3	2.0	0.1
Environmental Protection Agency	31.1	27.2	50.7	73.6	91.2	110.4	89.1	101.4	70.3	51.7	51.1
Library of Congress	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.5	0.5	0.0
National Aeronautics and Space Administration	1,013.7	1,112.7	1,417.4	1,636.9	1,705.6	1,738.2	1,800.1	1,963.9	1,978.2	1,980.9	2,094.8
National Archives and Records Administration	0.5	0.2	0.1	0.2	0.4	0.5	0.2	0.2	0.0	0.0	0.0
National Science Foundation	1,371.2	1,433.2	1,562.6	1,586.3	1,676.2	1,741.5	1,743.8	1,870.7	1,973.3	2,007.4	2,056.7
Smithsonian Institution	71.5	75.1	80.2	84.0	98.0	98.0	102.0	124.2	124.0	127.0	130.0
Tennessee Valley Authority	3.9	3.2	2.9	4.7	1.9	2.1	9.9	8.9	9.0	0.3	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 111. Federal obligations for basic research, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	24,751.4	26,120.7	27,140.3	26,584.6	27,476.5	27,720.7
Departments											
Department of Agriculture	603.8	743.3	807.9	903.1	930.1	961.6	919.9	953.7	945.8	963.8	860.4
Agricultural Research Service	401.7	461.7	477.7	546.9	582.9	584.1	538.0	542.8	556.1	524.2	500.5
Cooperative State Research, Education, and Extension Service	163.5	189.6	229.9	249.9	234.4	248.2	251.2	279.9	254.2	295.1	232.5
Economic Research Service	7.2	6.2	6.4	6.6	6.7	6.8	7.1	7.4	7.5	7.5	8.3
Food Safety Inspection Service	0.1	0.1	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.9	0.9	0.8	0.8	0.8	0.9	0.4	0.4	0.2	0.2	0.2
Forest Service	29.3	80.8	91.4	97.2	103.7	119.7	121.4	121.4	125.9	134.9	116.9
Grain Inspection, Packers, and Stockyards Administration	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Agricultural Statistics Service	1.1	1.2	1.3	1.4	1.5	1.8	1.8	1.8	1.9	1.9	2.0
Department of Commerce	39.6	49.1	46.4	64.9	72.5	65.9	47.9	59.0	72.8	96.3	109.4
Economic Development Administration	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
National Institute of Standards and Technology	38.6	42.0	40.3	53.5	56.1	65.5	47.0	59.0	72.8	96.3	109.4
National Oceanic and Atmospheric Administration	0.4	5.1	4.3	8.2	13.6	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Census Bureau	0.6	2.0	1.8	3.3	2.8	0.3	0.9	0.0	0.0	0.0	0.0
Department of Defense	1,030.8	1,040.2	1,230.1	2,009.3	1,812.5	1,396.1	1,416.2	1,399.5	1,304.2	1,520.5	1,481.2
Defense agencies and activities	334.3	311.9	417.1	870.9	899.2	512.8	193.1	157.4	160.5	239.3	287.9
Department of the Air Force	185.6	191.4	253.4	536.2	299.0	238.2	319.2	369.6	350.6	394.9	377.1
Materiel Command	na	na	na	na	276.0	192.8	319.2	369.6	350.6	394.9	377.1
Space Command	na	na	na	na	23.0	45.4	0.0	0.0	0.0	0.0	0.0
Department of the Army	182.0	181.1	205.3	208.4	224.6	240.6	442.3	396.8	348.8	383.2	340.7
Department of the Navy	329.0	355.8	354.3	393.9	389.7	404.5	461.6	475.7	444.3	503.1	475.5
Department of Education	2.1	2.0	2.1	2.3	5.3	5.5	9.0	9.6	2.6	4.9	5.1
Department of Energy	2,028.8	2,131.8	2,175.8	2,295.5	2,477.8	2,446.9	2,662.6	2,746.5	2,834.6	3,276.2	3,411.2
Bonneville Power Administration	NA	NA	NA	NA	3.2	3.3	3.4	*	0.0	*	0.1
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	60.1	30.6	22.6	22.7	1.2	0.6	0.8
Environmental Management	NA	NA	NA	NA	37.9	0.0	0.0	0.0	0.0	0.0	0.0
Fossil Energy	NA	NA	NA	NA	8.1	9.9	9.6	9.3	7.3	7.4	8.4
National Nuclear Security Administration	NA	NA	NA	NA	26.5	10.7	6.8	3.0	7.8	11.1	11.1
Nonproliferation and Verification	NA	NA	NA	NA	26.5	10.7	6.8	3.0	7.8	11.1	11.1
Office of Science	NA	NA	NA	NA	2,342.1	2,392.4	2,620.2	2,711.5	2,818.3	3,257.0	3,390.9
Department of Health and Human Services	7,355.4	8,632.5	10,055.4	11,592.3	12,860.8	14,102.5	14,766.5	15,786.1	15,539.6	15,533.9	15,473.3
Agency for Healthcare Research and Quality	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Health Resources and Services Administration	1.1	1.2	1.2	2.2	2.1	2.5	2.1	2.5	2.6	2.5	2.5
National Institutes of Health	7,354.3	8,631.3	10,054.1	11,590.2	12,843.8	14,100.0	14,764.5	15,783.6	15,537.0	15,531.4	15,470.8
Office of the Secretary	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 111. Federal obligations for basic research, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Office of the Assistant Secretary, Planning and Evaluation	0.0	0.0	0.0	0.0	14.9	0.0	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	na	na	na	na	na	NA	166.5	55.1	79.8	103.5	76.4
Science and Technology Directorate	na	na	na	na	na	NA	85.1	55.1	79.8	103.5	76.4
Transportation Security Administration	na	na	na	na	na	NA	81.3	0.0	0.0	0.0	0.0
Department of the Interior	48.7	59.1	51.8	61.8	45.8	40.7	36.7	35.7	42.1	41.9	38.8
Geological Survey	48.2	58.6	51.3	60.2	40.8	40.7	36.7	35.7	42.1	41.9	38.8
National Park Service <sup>a</sup>	0.5	0.5	0.5	1.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Justice	16.0	17.8	21.7	25.0	25.4	31.2	14.5	17.5	18.1	18.0	15.4
Office of Justice Programs	16.0	17.8	21.7	25.0	25.4	31.2	14.5	17.5	18.1	18.0	15.4
Department of Labor	11.1	11.1	11.0	38.4	30.2	13.1	13.7	13.8	13.6	14.3	14.5
Bureau of Labor Statistics	11.1	11.1	11.0	13.4	12.4	13.1	13.7	13.8	13.6	14.3	14.5
Employment and Training Administration	0.0	0.0	0.0	25.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0
Department of Transportation	35.0	60.7	16.2	23.0	36.3	24.5	19.9	0.0	1.6	0.0	0.0
Federal Highway Administration	35.0	60.7	16.2	23.0	17.4	24.5	19.9	0.0	1.6	0.0	0.0
Transportation Security Administration	na	na	na	na	18.9	na	na	na	na	na	na
Department of the Treasury	*	*	*	*	0.7	0.2	0.1	0.2	0.3	0.4	0.4
Bureau of Engraving and Printing	*	*	*	*	0.7	0.2	0.1	0.2	0.3	0.4	0.4
Department of Veterans Affairs	120.0	148.4	149.2	142.1	141.7	164.0	174.7	176.9	181.1	182.0	180.7
Other agencies											
Agency for International Development	1.8	0.1	0.1	0.1	0.1	0.1	0.1	18.4	18.0	18.0	18.0
Environmental Protection Agency	57.4	57.0	58.6	74.5	63.8	96.4	113.9	109.2	104.3	93.1	91.3
Library of Congress	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
National Aeronautics and Space Administration	2,023.8	2,040.9	2,305.4	1,765.2	1,984.7	1,907.8	2,143.5	2,239.6	1,803.2	1,809.6	1,831.2
National Science Foundation	2,118.7	2,359.5	2,540.0	2,862.6	3,074.5	3,391.0	3,505.1	3,410.7	3,504.0	3,672.2	3,977.4
Smithsonian Institution	120.0	90.0	98.0	98.0	106.0	104.0	108.0	109.0	119.0	128.0	136.0
Tennessee Valley Authority	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

<sup>a</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 112. Federal obligations for applied research, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	8,998.1	9,176.5	10,163.5	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4
Departments											
Department of Agriculture	473.4	504.6	517.3	542.1	617.9	665.8	635.8	716.2	703.8	670.0	700.0
Agricultural Cooperative Service	2.7	2.7	2.8	2.7	2.8	3.4	2.9	3.7	na	na	na
Agricultural Marketing Service	1.2	1.3	1.3	1.7	3.7	4.1	4.1	4.2	4.2	4.2	4.2
Agricultural Research Service	201.1	208.2	209.4	218.2	241.1	257.1	233.3	257.9	259.6	256.6	261.3
Animal and Plant Health Inspection Service	4.9	5.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cooperative State Research, Education, and Extension Service	138.0	152.6	164.7	170.5	206.4	228.6	226.2	234.3	231.7	213.7	243.6
Economic Research Service	38.5	41.4	42.6	43.5	46.8	50.6	48.3	45.3	48.4	47.7	47.7
Foreign Agricultural Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.5
Forest Service	73.5	79.9	77.5	93.5	103.6	106.9	107.8	156.5	154.8	143.0	137.4
Grain Inspection, Packers, and Stockyards Administration	0.7	0.6	0.8	0.2	0.7	1.5	1.8	1.8	0.3	0.5	0.6
Human Nutrition Information Service	6.8	8.2	8.4	9.0	9.9	10.7	8.4	7.0	na	na	na
National Agricultural Statistics Service	2.3	2.4	1.9	1.9	2.2	2.4	2.6	2.6	2.7	2.5	2.3
Office of International Cooperation and Development	3.3	1.2	0.6	0.9	0.7	0.4	0.4	0.0	na	na	na
Office of Transportation	0.4	0.4	na	na	na	na	na	na	na	na	na
Rural Business-Cooperative Service	na	na	na	na	na	na	na	2.4	1.6	1.4	2.5
Department of Commerce	312.8	311.5	321.9	345.6	415.4	561.4	544.9	678.2	853.1	813.1	768.8
Economic Development Administration	5.0	4.2	1.0	1.2	1.4	0.5	0.0	0.6	0.5	0.6	0.6
National Institute of Standards and Technology	64.3	72.6	77.6	83.2	92.5	115.8	136.4	167.5	333.1	318.2	293.3
National Oceanic and Atmospheric Administration	234.4	225.0	234.6	252.4	315.6	438.7	401.4	502.7	510.4	480.8	468.8
National Telecommunications and Information Administration	7.0	7.3	6.9	6.8	3.6	4.0	4.2	4.8	6.4	11.9	3.8
Office of the Secretary	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	0.0
U.S. Census Bureau	2.1	2.4	1.8	2.1	2.3	2.4	2.9	2.5	2.6	1.6	2.4
Department of Defense	2,440.0	2,362.2	2,708.2	2,581.6	2,723.8	2,974.5	3,515.2	3,040.0	2,950.1	2,857.6	2,786.9
Defense agencies and activities	751.3	791.5	1,038.1	964.6	944.7	1,162.9	1,469.2	1,381.7	1,218.6	1,211.1	1,088.2
Department of the Air Force	563.2	576.7	604.6	579.3	621.2	584.7	669.1	571.9	627.7	654.4	628.5
Department of the Army	692.9	588.0	636.3	595.2	671.9	727.8	802.8	639.3	633.3	475.3	531.7
Department of the Navy	432.5	406.0	429.2	442.6	486.0	499.0	574.1	447.0	470.5	516.8	538.5
Department of Education	103.8	106.6	117.5	125.3	123.1	119.5	128.3	131.2	132.8	132.1	135.0
Department of Energy	1,029.4	1,050.6	1,020.8	1,065.7	1,587.2	1,676.1	1,685.4	1,679.2	1,825.6	1,432.5	1,596.8
Department of Health and Human Services	2,194.0	2,415.6	2,700.4	2,818.1	3,112.4	2,886.8	3,495.9	3,852.5	4,014.9	4,041.3	4,376.3
Administration for Children and Families	na	na	na	na	13.5	34.3	18.5	10.4	11.2	12.6	17.4
Administration on Aging	na	na	na	na	2.9	2.5	2.7	3.5	3.0	0.2	0.2
Agency for Healthcare Research and Quality	na	na	na	44.2	93.0	97.8	105.6	141.2	124.0	116.0	134.1



TABLE 112. Federal obligations for applied research, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Alcohol, Drug Abuse, and Mental Health Administration	241.1	286.6	384.7	415.0	463.9	na	na	na	na	na	na
Centers for Disease Control and Prevention	66.2	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	323.0
Centers for Medicare and Medicaid Services	27.3	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7	43.6
Food and Drug Administration	85.0	91.0	99.0	99.0	125.0	135.7	154.5	169.4	170.5	170.8	158.6
Health Resources and Services Administration	8.0	9.0	9.3	10.7	9.5	8.8	8.5	9.8	11.2	10.1	12.1
Human Development Services	9.4	7.1	8.5	7.7	na	na	na	na	na	na	na
National Institutes of Health	1,739.1	1,885.6	2,008.5	2,074.1	2,193.5	2,341.3	2,942.9	3,197.4	3,273.6	3,373.3	3,669.0
Office of the Assistant Secretary for Health	0.0	0.0	0.0	5.8	9.6	6.0	0.0	0.0	0.0	na	na
Office of the Secretary	8.2	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	9.0	18.4
Office of the Assistant Secretary, Planning and Evaluation	na	na	na	na	na	na	na	na	na	9.0	18.4
Social Security Administration	9.8	14.7	15.8	11.8	10.2	33.0	24.5	22.2	20.4	na	na
Department of Housing and Urban Development	5.5	6.3	6.1	6.6	9.4	8.8	8.1	13.7	14.2	11.2	11.3
Department of the Interior	247.3	266.0	253.0	269.8	324.1	339.7	349.8	566.9	477.3	486.0	496.2
Bureau of Land Management	2.1	2.2	2.0	2.1	4.8	5.3	7.4	0.0	0.0	0.0	0.0
Bureau of Mines	39.6	54.1	49.3	49.3	56.2	59.2	60.4	70.0	0.0	na	na
Bureau of Reclamation	10.1	3.6	3.5	5.2	7.7	10.7	7.4	5.5	6.0	4.9	5.4
Geological Survey	131.7	135.8	126.8	134.2	159.3	164.3	165.9	311.9	306.2	439.5	444.8
Minerals Management Service	1.0	1.2	2.2	1.9	2.7	3.8	5.8	20.6	20.0	21.9	20.6
National Biological Service	na	na	na	na	na	na	0.0	135.4	125.8	na	na
National Park Service	18.5	19.4	19.4	20.1	27.5	31.1	37.5	23.6	19.2	19.7	25.5
Office of Surface Mining Reclamation and Enforcement	1.0	1.0	0.7	0.7	1.0	0.3	0.5	0.0	0.0	0.0	0.0
Office of the Secretary	0.0	0.1	0.0	0.0	0.1	0.2	0.2	0.0	0.0	0.0	0.0
U.S. Fish and Wildlife Service	43.3	48.7	49.1	56.4	64.8	64.8	64.8	0.0	0.0	0.0	0.0
Department of Justice	11.8	9.8	10.7	11.1	14.7	15.0	20.5	20.0	17.7	19.5	20.1
Bureau of Prisons	2.2	2.1	2.1	1.8	1.9	2.5	2.5	2.1	3.2	3.1	1.9
Drug Enforcement Administration	0.7	0.6	0.5	0.4	0.9	0.1	*	0.1	0.0	*	*
Immigration and Naturalization Service	0.2	0.3	0.1	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4
Office of Justice Programs	8.6	6.8	8.0	8.5	11.5	12.0	17.6	17.4	14.1	16.1	17.8
Office of Legal Policy	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Labor	19.0	26.4	21.8	21.3	24.0	23.6	13.4	13.7	16.6	15.2	10.4
Bureau of Labor Statistics	6.5	7.0	7.0	7.3	7.5	7.6	1.5	1.5	1.5	1.8	1.3
Employee Benefits Security Administration	1.0	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.0
Employment and Training Administration	4.0	6.5	5.7	5.7	6.3	5.4	3.3	2.9	4.2	2.6	1.5
Employment Standards Administration	1.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Labor-Management Relations and Cooperative Programs	0.3	0.4	0.3	na	na	na	na	na	na	na	na
Occupational Safety and Health Administration	4.1	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6	5.5
Office of the Secretary	1.8	5.2	2.5	3.3	4.7	4.1	2.9	3.1	2.9	1.8	0.1
Pension Benefit Guaranty Corporation	0.3	0.3	0.3	0.3	0.4	0.8	0.7	0.3	0.1	0.1	0.1

TABLE 112. Federal obligations for applied research, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Department of State	0.3	1.0	1.3	1.2	1.3	0.7	0.5	0.4	0.5	0.9	1.0
Department of Transportation	68.6	91.2	120.5	119.2	114.6	155.7	224.4	270.4	323.9	336.7	343.7
Federal Aviation Administration	11.1	13.3	23.6	26.1	24.0	30.1	59.8	79.5	83.3	130.6	159.4
Federal Highway Administration	20.7	43.7	56.6	57.6	46.1	72.0	90.1	131.2	156.3	135.4	111.6
Federal Railroad Administration	10.4	8.2	7.5	8.5	13.2	18.9	20.9	16.1	22.5	21.3	18.2
Federal Transit Administration	0.0	0.0	0.0	0.0	0.0	0.0	10.9	7.8	10.9	5.6	6.0
Maritime Administration	3.1	0.5	0.0	0.9	1.7	1.8	1.7	1.7	2.5	0.0	0.0
National Highway Traffic Safety Administration	18.9	19.1	26.2	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.4
Office of the Secretary	0.4	0.7	1.3	1.7	0.6	0.7	0.6	0.6	0.6	0.0	0.0
Research and Special Programs Administration	0.2	0.4	0.7	2.4	1.4	1.4	0.5	2.6	3.2	5.6	6.3
U.S. Coast Guard	3.7	5.4	4.6	5.1	6.4	5.0	8.2	5.6	4.9	5.0	5.7
Department of the Treasury	12.7	11.1	13.0	15.3	20.6	17.2	4.6	9.2	48.9	50.4	50.8
Bureau of Engraving and Printing	2.7	1.1	0.9	1.4	2.7	1.8	3.2	1.6	1.3	1.5	1.6
Internal Revenue Service	9.7	9.0	11.3	13.1	13.9	13.9	0.0	6.1	45.8	47.5	47.9
Office of Thrift Supervision	na	na	na	0.0	3.0	0.8	0.7	0.5	0.6	0.5	0.6
U.S. Customs Service	0.2	0.7	0.4	0.4	0.5	0.2	0.1	0.5	0.7	0.5	0.4
U.S. Secret Service	0.1	0.3	0.4	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.4
Department of Veterans Affairs	173.1	178.8	197.1	199.4	177.7	185.2	194.1	209.1	206.4	222.8	217.4
Other agencies											
Advisory Commission on Intergovernmental Relations	1.9	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	na	na
Agency for International Development	151.2	132.1	216.0	300.2	351.7	294.2	350.8	214.4	270.4	203.0	176.5
Appalachian Regional Commission	0.1	0.2	0.8	0.4	0.7	1.9	0.9	0.9	0.9	0.9	0.9
Consumer Product Safety Commission	0.6	0.1	0.5	0.4	0.9	0.8	0.8	0.1	0.0	0.0	0.1
Environmental Protection Agency	246.1	240.7	222.6	241.6	261.9	293.9	272.4	301.0	331.3	329.1	358.0
Federal Communications Commission	1.0	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.1
Federal Trade Commission	0.5	0.4	0.4	0.5	1.0	1.3	0.9	0.7	0.6	0.5	0.7
General Services Administration	1.6	2.3	0.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Library of Congress	1.1	1.2	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	0.5
National Aeronautics and Space Administration	1,255.5	1,218.9	1,461.4	1,423.8	1,665.6	1,491.1	1,748.6	1,876.7	2,067.9	1,897.1	2,090.1
National Archives and Records Administration	0.3	0.3	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	99.3	99.6	107.8	103.3	109.0	126.9	138.1	169.7	176.0	181.0	191.8
Nuclear Regulatory Commission	122.5	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9	62.1
Office of Thrift Supervision	3.4	3.4	4.1	4.1	na	na	na	na	na	na	na
Social Security Administration	na	na	na	na	na	na	na	na	na	11.5	13.6
Tennessee Valley Authority	13.8	15.3	11.7	17.0	16.9	22.2	18.1	17.0	17.4	3.9	4.0

TABLE 112. Federal obligations for applied research, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
U.S. Arms Control and Disarmament Agency	0.4	0.8	1.2	0.2	0.4	2.1	1.5	1.3	1.1	0.7	1.2
U.S. Information Agency	0.0	0.1	0.0	0.5	0.1	0.0	1.1	0.6	0.3	0.1	0.2
U.S. International Trade Commission	7.2	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.7

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 113. Federal obligations for applied research, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,320.4	27,237.1	26,597.9	26,951.1	27,598.1	26,988.0
Departments											
Department of Agriculture	730.1	744.8	803.5	900.6	880.3	907.6	998.9	1,049.2	1,084.7	1,123.8	946.3
Agricultural Marketing Service	4.0	4.0	4.3	4.1	4.4	4.1	7.9	7.7	6.3	6.6	6.8
Agricultural Research Service	288.0	316.4	327.3	358.0	381.5	382.3	450.2	454.2	465.3	438.6	418.8
Cooperative State Research, Education, and Extension Service	223.0	272.9	305.2	365.2	312.3	319.9	334.5	371.7	390.9	448.1	303.7
Economic Research Service	64.4	56.2	57.7	59.1	60.3	61.6	63.7	66.6	67.5	67.7	74.3
Food Safety Inspection Service	0.0	0.1	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foreign Agricultural Service	0.5	0.6	0.6	0.6	0.6	0.7	1.2	1.1	0.6	0.6	0.6
Forest Service	143.0	88.7	100.4	106.7	113.9	131.4	133.2	133.2	138.2	148.1	128.3
Grain Inspection, Packers, and Stockyards Administration	0.5	0.0	0.7	0.0	0.0	0.0	0.0	6.7	7.1	6.7	7.9
National Agricultural Statistics Service	2.2	2.4	2.6	2.8	3.1	3.7	4.3	4.3	4.6	4.7	4.9
Rural Business-Cooperative Service	4.4	3.5	3.1	2.4	4.2	3.8	3.8	3.6	4.1	2.6	1.1
Department of Commerce	767.4	798.9	849.6	763.4	921.9	988.3	840.0	830.5	767.3	698.1	731.1
Economic Development Administration	0.6	0.6	0.6	0.6	0.4	0.5	0.2	0.5	0.2	1.1	0.0
National Institute of Standards and Technology	266.7	266.9	268.3	283.3	298.6	315.5	312.6	298.6	282.6	313.4	301.9
National Oceanic and Atmospheric Administration	491.7	523.7	574.1	470.8	615.7	665.6	519.9	520.3	471.8	370.7	417.0
National Telecommunications and Information Administration	3.8	3.8	4.0	4.2	4.1	6.4	6.3	6.9	6.7	7.1	7.1
U.S. Census Bureau	4.6	3.8	2.5	4.7	3.2	0.3	0.9	4.2	6.0	5.8	5.0
Department of Defense	2,939.1	3,102.1	3,690.2	4,796.9	4,452.8	4,419.5	4,281.7	4,532.0	4,447.7	5,335.6	4,601.8
Defense agencies and activities	1,258.7	1,343.9	1,482.2	1,633.4	1,754.2	1,699.2	1,685.5	1,594.6	1,580.2	2,142.8	2,091.0
Department of the Air Force	551.3	573.4	843.1	1,654.8	1,058.4	1,091.1	891.3	876.8	1,000.5	1,086.9	1,011.6
Materiel Command	na	na	na	na	1,056.3	1,078.5	891.3	876.8	1,000.5	1,086.9	1,011.6
Space Command	na	na	na	na	2.1	12.6	0.0	0.0	0.0	0.0	0.0
Department of the Army	635.9	667.3	765.6	879.7	886.9	877.0	1,028.8	1,303.4	1,103.8	1,244.8	814.1
Department of the Navy	493.2	517.5	599.3	629.0	753.3	752.2	676.1	757.3	763.3	861.1	685.1
Department of Education	146.7	146.6	161.5	180.9	178.3	196.1	201.9	204.4	213.0	201.8	204.5
Department of Energy	1,758.7	1,788.0	1,925.0	2,297.6	2,584.6	2,813.7	2,835.4	2,957.3	2,885.7	2,779.3	3,075.5
Bonneville Power Administration	NA	NA	NA	NA	11.1	11.4	12.0	8.9	9.8	8.5	6.7
Civilian Radioactive Waste Management	NA	NA	NA	NA	62.5	75.8	78.9	53.5	52.9	12.4	28.9
Electricity Delivery and Energy Restoration	NA	NA	NA	NA	NA	NA	NA	66.5	93.4	65.9	57.2
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	233.6	279.9	244.3	249.1	210.2	342.3	366.7
Environmental Management	NA	NA	NA	NA	49.0	20.8	12.8	14.9	10.2	6.4	6.4
Fossil Energy	NA	NA	NA	NA	136.9	245.9	221.6	206.7	210.8	199.5	208.9
National Nuclear Security Administration	NA	NA	NA	NA	2,046.1	2,147.7	2,193.6	2,274.5	2,210.9	2,076.2	2,192.5
Defense Programs	NA	NA	NA	NA	1,893.9	2,009.9	2,105.8	2,193.4	2,076.2	1,950.9	2,067.2

TABLE 113. Federal obligations for applied research, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Nonproliferation and Verification	NA	NA	NA	NA	152.1	137.8	87.8	81.0	134.7	125.3	125.3
Nuclear Energy	NA	NA	NA	NA	42.5	29.4	69.4	83.2	87.5	68.1	208.2
Office of Science	NA	NA	NA	NA	3.0	2.8	2.9	0.0	0.0	0.0	0.0
Department of Health and Human Services	4,663.1	5,082.1	7,857.7	9,056.3	10,370.1	12,185.3	13,224.7	12,831.0	13,140.0	13,186.7	13,307.8
Administration for Children and Families	23.5	24.9	27.3	28.4	23.3	20.9	20.1	38.6	14.4	14.7	15.1
Administration on Aging	2.4	2.4	2.8	3.7	3.7	0.0	3.0	2.9	2.9	0.0	0.0
Agency for Healthcare Research and Quality	138.8	171.3	186.7	248.1	274.8	284.0	279.4	293.2	293.2	293.2	303.2
Agency for Toxic Substances and Disease Registry	na	na	14.7	13.1	12.4	14.3	10.7	9.4	9.0	10.9	6.4
Centers for Disease Control and Prevention	343.6	433.3	505.0	544.0	521.0	564.0	539.8	510.8	544.6	534.2	534.2
Centers for Medicare and Medicaid Services	51.2	49.7	61.5	138.0	117.0	73.6	77.6	77.3	62.4	57.4	33.7
Food and Drug Administration	142.9	130.8	144.2	151.6	136.3	138.3	132.3	142.1	143.3	142.6	137.8
Health Resources and Services Administration	11.9	11.6	34.5	13.9	15.2	14.0	14.9	15.1	14.8	14.8	14.8
National Institutes of Health	3,934.9	4,244.2	6,864.2	7,890.5	9,266.3	11,056.4	12,125.9	11,716.7	12,028.6	12,093.5	12,237.1
Office of the Secretary	13.9	13.9	16.7	24.9	0.0	19.9	21.1	24.8	26.8	25.4	25.4
Office of the Assistant Secretary, Planning and Evaluation	13.9	13.9	16.7	24.9	0.0	19.9	21.1	24.8	26.8	25.4	25.4
Department of Homeland Security	na	na	na	na	na	NA	246.9	542.1	526.3	328.1	243.4
Science and Technology Directorate	na	na	na	na	na	NA	199.4	356.0	515.7	320.1	236.2
Transportation Security Administration	na	na	na	na	na	NA	41.5	180.5	2.6	0.0	0.0
U.S. Coast Guard	na	na	na	na	na	NA	5.1	4.6	7.1	7.1	6.3
U.S. Secret Service	na	na	na	na	na	NA	1.0	1.0	1.0	0.9	0.9
Department of Housing and Urban Development	9.2	19.1	15.5	17.9	16.2	14.0	17.5	16.5	11.5	12.8	13.9
Department of the Interior	454.1	550.9	496.6	511.0	511.6	492.7	509.9	495.6	509.0	482.7	482.2
Bureau of Reclamation	6.6	7.7	7.4	7.3	3.6	3.3	3.8	4.4	3.1	3.0	3.2
Geological Survey	389.0	491.5	425.8	470.9	464.1	456.2	467.4	460.9	473.4	453.3	453.1
Minerals Management Service	29.3	28.8	29.2	24.5	31.2	26.7	27.2	27.1	28.9	26.4	26.0
National Park Service <sup>a</sup>	29.2	22.9	34.2	8.3	12.6	6.5	11.5	3.2	3.7	0.0	0.0
Department of Justice	26.0	36.2	27.8	36.8	23.8	25.4	32.6	40.2	34.9	31.9	28.1
Bureau of Prisons	4.3	7.4	3.4	8.5	3.6	4.8	5.0	4.4	2.7	2.8	2.8
Office of Justice Programs	21.7	28.8	24.4	28.3	20.1	20.6	27.6	35.8	32.1	29.1	25.3
Department of Labor	11.0	16.6	35.1	18.7	15.3	23.2	23.8	22.2	16.5	17.3	16.6
Bureau of Labor Statistics	1.3	1.3	1.3	8.1	8.3	7.5	8.7	8.7	9.2	8.3	8.3
Employee Benefits Security Administration	2.7	2.5	2.7	3.3	2.7	2.7	2.5	2.7	2.6	2.6	2.6
Employment and Training Administration	2.2	8.8	25.0	0.0	0.0	9.0	9.0	6.7	0.7	2.2	1.5
Occupational Safety and Health Administration	4.6	3.8	5.8	5.7	3.8	3.1	3.4	3.4	3.5	3.7	3.8
Office of the Secretary	0.1	0.2	0.3	1.5	0.3	0.8	0.1	0.5	0.3	0.3	0.3
Pension Benefit Guaranty Corporation	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Department of State	0.9	1.5	1.5	2.2	2.3	2.3	3.0	3.3	4.2	4.3	4.8

TABLE 113. Federal obligations for applied research, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Department of Transportation	366.1	416.0	328.2	422.7	494.6	408.4	340.3	254.6	533.6	553.0	584.9
Federal Aviation Administration	151.6	142.3	164.4	186.1	244.8	135.6	118.3	128.3	136.6	131.3	140.0
Federal Highway Administration	134.6	187.2	76.7	135.3	121.1	168.3	181.9	51.7	286.8	307.4	332.5
Federal Motor Carrier Safety Administration	na	na	2.8	8.0	0.2	6.8	6.4	6.6	5.3	8.7	6.6
Federal Railroad Administration	21.2	20.3	24.2	23.8	29.7	28.7	24.3	25.7	40.8	40.0	27.7
Federal Transit Administration	7.4	4.8	0.0	0.0	0.6	0.0	*	0.3	3.6	4.0	3.8
National Highway Traffic Safety Administration	41.6	50.4	50.6	58.3	59.6	65.4	6.7	40.1	57.5	57.5	65.7
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	0.0	0.0	0.0	2.6	1.8	2.2	2.8	2.2
Research and Innovative Technology Administration	na	na	na	na	na	na	0.0	0.1	0.7	1.3	6.3
Research and Special Programs Administration	4.6	6.0	4.5	5.2	3.7	3.5	na	na	na	na	na
Transportation Security Administration	na	na	na	na	28.3	na	na	na	na	na	na
U.S. Coast Guard	5.1	5.1	5.0	5.9	6.4	na	na	na	na	na	na
Department of the Treasury	52.5	50.7	51.2	63.2	61.1	58.5	61.2	63.1	60.4	61.5	68.4
Bureau of Engraving and Printing	2.6	2.0	2.6	4.7	4.6	4.1	3.9	5.4	5.1	6.7	7.4
Internal Revenue Service	47.9	48.0	47.4	56.6	55.5	54.4	57.3	57.8	55.4	54.7	61.0
Office of Thrift Supervision	0.7	0.1	0.1	0.1	0.1	0.0	na	na	na	na	na
U.S. Customs Service	0.8	0.0	0.0	1.0	*	na	na	na	na	na	na
U.S. Secret Service	0.5	0.5	1.0	0.7	0.8	na	na	na	na	na	na
Department of Veterans Affairs	149.1	183.8	185.4	196.1	172.6	185.6	209.2	205.8	210.8	211.8	210.3
Other agencies											
Agency for International Development	171.1	163.7	189.2	239.1	247.5	262.3	241.3	198.3	197.0	197.0	197.0
Appalachian Regional Commission	0.7	0.8	0.6	0.7	0.7	0.7	0.6	0.8	1.0	0.7	0.7
Broadcasting Board of Governors	na	na	0.1	*	0.3	0.0	1.0	0.2	0.2	0.0	0.0
Consumer Product Safety Commission	0.0	0.0	0.0	0.1	0.0	0.0	na	na	na	na	na
Environmental Protection Agency	419.8	400.0	352.1	276.2	259.9	365.4	422.9	416.2	400.5	356.3	346.7
Federal Communications Commission	3.0	4.5	2.8	2.7	4.4	4.5	4.1	5.1	7.1	7.7	6.3
Federal Trade Commission	1.1	1.3	0.7	0.7	1.8	2.3	1.6	1.2	1.6	1.7	2.0
Library of Congress	0.5	0.5	0.6	2.0	1.7	0.5	14.4	1.6	3.3	0.3	0.3
National Aeronautics and Space Administration	2,389.9	2,317.0	1,658.5	2,706.6	2,853.8	2,645.7	2,355.9	1,489.4	1,468.6	1,451.0	1,363.5
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
National Science Foundation	170.7	146.5	185.5	180.9	185.5	217.6	265.6	332.2	286.6	378.8	380.3
Nuclear Regulatory Commission	51.7	49.0	53.0	53.0	74.3	64.0	72.1	70.1	71.4	76.5	70.9
Social Security Administration	17.4	53.3	28.8	28.9	22.8	36.8	30.4	35.1	67.8	99.4	100.7
Tennessee Valley Authority	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 113. Federal obligations for applied research, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
U.S. Arms Control and Disarmament Agency	1.2	na	na	na	na	na	na	na	na	na	na
U.S. Information Agency	0.3	0.1	na	na	na	na	na	na	na	na	na
U.S. International Trade Commission	7.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

<sup>a</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 114. Federal obligations for development, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All agencies	37,313.2	38,119.3	40,641.0	41,937.1	37,326.8	41,102.0	40,423.5	39,824.2	39,752.4	39,393.3	40,461.5
Departments											
Department of Agriculture	29.0	31.4	36.1	47.1	61.2	66.1	76.1	77.4	81.4	80.3	98.5
Agricultural Marketing Service	0.3	0.3	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6
Agricultural Research Service	24.0	26.3	31.4	33.3	40.2	43.9	52.8	54.3	54.7	54.0	61.9
Animal and Plant Health Inspection Service	0.0	0.0	0.0	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.8
Food Safety Inspection Service	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*
Forest Service	3.8	4.0	3.9	4.8	4.5	4.9	5.5	3.3	5.8	5.6	13.9
Grain Inspection, Packers, and Stockyards Administration	0.5	0.4	0.3	0.4	0.1	0.0	0.0	0.0	1.2	2.0	2.2
Office of International Cooperation and Development	0.3	0.2	0.1	0.2	0.2	0.0	0.0	0.0	na	na	na
Office of Transportation	0.1	0.1	na	na	na	na	na	na	na	na	na
Department of Commerce	63.7	46.6	46.9	61.2	39.9	55.3	74.2	107.8	243.7	216.9	195.1
National Institute of Standards and Technology	9.3	9.1	10.0	10.5	15.6	29.6	34.3	45.9	191.2	161.6	128.9
National Oceanic and Atmospheric Administration	51.7	34.8	34.1	47.7	22.4	23.7	37.8	59.9	50.6	47.7	40.5
National Telecommunications and Information Administration	0.8	0.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	3.8	24.0
U.S. Census Bureau	1.9	1.9	2.0	2.0	1.9	2.0	2.1	2.0	1.9	3.8	1.7
Department of Defense	31,884.0	32,009.7	33,920.8	33,738.9	28,416.9	32,056.1	31,065.7	30,312.6	29,597.9	30,539.9	30,978.4
Defense agencies and activities	4,353.5	4,868.4	5,616.8	5,780.2	5,919.4	6,114.4	5,766.0	5,553.1	5,731.2	6,184.4	6,106.3
Department of the Air Force	14,562.9	14,094.2	14,430.0	14,055.1	10,107.1	12,636.6	11,747.5	11,713.1	10,963.4	12,159.8	13,135.0
Department of the Army	4,109.6	4,052.3	4,835.9	4,903.8	5,221.0	5,921.5	5,190.5	4,721.5	4,567.2	4,203.2	4,111.1
Department of the Navy	8,721.1	8,766.2	8,882.9	8,778.6	6,932.0	7,138.0	8,106.8	8,081.9	8,083.3	7,712.9	7,329.8
Operational Test and Evaluation, Director	8.4	68.2	14.4	32.6	13.6	12.4	12.3	11.2	21.7	21.9	26.6
Test and Evaluation, Deputy Under Secretary of Defense	128.5	160.3	140.7	188.7	223.7	233.2	242.5	231.8	231.0	257.7	269.7
Department of Education	25.6	29.7	37.2	39.7	39.4	41.5	44.1	39.9	39.3	38.2	43.2
Department of Energy	2,659.4	2,801.0	2,760.9	3,060.1	2,709.5	2,759.7	2,821.9	2,765.5	2,685.0	1,982.8	2,035.8
Department of Health and Human Services	584.3	661.1	814.4	938.5	1,593.5	1,042.3	1,156.6	1,285.1	1,379.3	1,405.2	1,557.2
Administration for Children and Families	na	na	na	na	115.5	4.8	1.4	0.9	0.8	0.0	0.0
Administration on Aging	na	na	na	na	17.7	17.8	18.2	15.6	17.7	3.5	4.3
Agency for Healthcare Research and Quality	na	na	na	5.5	8.1	8.5	9.2	12.4	11.3	9.2	9.9
Alcohol, Drug Abuse, and Mental Health Administration	2.2	2.4	3.0	41.5	537.6	na	na	na	na	na	na
Health Resources and Services Administration	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	1.0	0.0	0.0
Human Development Services	43.6	46.8	93.2	87.7	na	na	na	na	na	na	na
National Institutes of Health	536.2	610.2	716.5	800.7	912.5	1,010.5	1,126.6	1,249.6	1,348.2	1,374.1	1,473.3
Office of the Assistant Secretary for Health	2.3	1.6	1.7	1.1	0.4	0.7	1.2	0.8	0.3	na	na
Office of the Secretary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.6



TABLE 114. Federal obligations for development, by agency: FY 1987-97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Office of Public Health and Science	na	na	na	na	na	na	na	na	na	1.7	0.6
Social Security Administration	0.0	0.0	0.0	2.1	1.7	0.0	0.0	0.0	0.0	na	na
Substance Abuse and Mental Health Services Administration	na	na	na	na	na	na	na	na	na	16.7	69.1
Department of Housing and Urban Development	10.8	12.1	11.9	12.7	18.4	16.3	15.5	25.9	27.7	22.0	22.2
Department of the Interior	21.7	24.3	27.1	33.3	39.5	38.6	39.0	43.9	29.2	25.5	27.2
Bureau of Land Management	1.6	1.5	1.0	0.7	2.8	0.4	0.9	0.0	0.0	0.0	0.0
Bureau of Mines	3.6	5.2	5.4	9.4	7.1	4.2	6.9	12.5	0.0	na	na
Bureau of Reclamation	0.5	0.7	0.6	0.5	0.9	2.5	2.8	1.8	2.0	1.6	1.7
Geological Survey	10.3	10.9	12.9	15.1	18.2	16.9	12.8	15.7	14.1	23.8	25.5
National Biological Service	na	na	na	na	na	na	0.0	13.8	13.0	na	na
Office of the Secretary	0.0	0.3	0.4	0.2	0.5	0.7	0.2	0.1	*	0.0	0.0
U.S. Fish and Wildlife Service	5.7	5.7	6.7	7.4	10.0	13.9	15.3	0.0	0.0	0.0	0.0
Department of Justice	22.5	25.7	20.6	20.6	27.8	27.7	23.3	19.2	32.1	45.2	52.3
Bureau of Prisons	4.9	3.9	3.0	2.7	3.3	3.4	3.6	3.3	2.5	2.2	2.7
Drug Enforcement Administration	1.5	1.9	2.2	2.0	1.8	1.3	0.8	0.8	0.4	1.2	*
Federal Bureau of Investigation	8.0	12.7	7.7	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.5
Immigration and Naturalization Service	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Justice Programs	7.9	7.1	7.8	7.7	11.9	12.1	7.5	8.1	18.3	8.5	14.0
Department of Labor	1.2	8.9	13.3	51.4	19.7	27.9	36.1	40.1	25.5	25.8	13.3
Employment and Training Administration	0.3	8.0	9.7	47.4	15.5	26.1	32.5	36.9	21.4	24.3	12.6
Office of the Secretary	0.9	0.9	3.6	3.8	4.0	1.7	3.0	2.2	3.4	0.8	0.1
Pension Benefit Guaranty Corporation	0.0	0.0	0.0	0.2	0.2	0.1	0.6	1.0	0.7	0.6	0.6
Department of Transportation	256.2	213.4	182.9	247.4	265.3	288.1	319.3	347.4	356.2	177.3	145.7
Federal Aviation Administration	156.2	147.3	123.2	189.9	196.2	206.1	189.1	206.1	205.1	77.7	49.7
Federal Highway Administration	56.0	30.4	34.4	33.8	40.8	57.0	83.1	101.5	109.4	66.1	61.1
Federal Railroad Administration	0.8	1.8	1.5	1.7	2.7	3.9	4.3	3.4	4.0	5.4	0.7
Federal Transit Administration	12.6	2.3	1.4	1.6	1.7	1.7	13.3	12.1	17.9	8.1	11.1
Maritime Administration	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
National Highway Traffic Safety Administration	9.0	9.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	4.1	5.0	4.2	5.1	3.7	3.4	3.9	4.9	3.3	2.8	3.5
Research and Special Programs Administration	1.8	1.7	1.3	0.0	1.0	1.1	0.8	2.7	1.8	2.1	2.4
U.S. Coast Guard	13.3	15.7	13.3	15.2	19.2	15.0	24.7	16.7	14.8	15.0	17.2
Department of the Treasury	9.5	10.2	9.3	6.9	6.7	3.8	5.5	9.8	12.4	9.5	8.8
Bureau of Engraving and Printing	1.7	0.8	0.3	0.7	0.8	0.2	0.0	0.1	0.5	0.1	0.1
Financial Crimes Enforcement Network	0.0	0.0	0.0	0.0	2.3	1.2	1.5	0.0	0.0	0.0	0.0
Internal Revenue Service	0.4	0.7	0.3	0.3	0.4	0.4	0.0	5.2	3.9	3.7	3.0
U.S. Customs Service	6.8	8.5	6.4	5.8	3.2	2.0	3.9	4.0	7.7	5.7	5.8
U.S. Mint	0.2	0.1	2.0	0.1	0.1	0.0	0.1	0.5	0.3	0.0	*
U.S. Secret Service	0.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Department of Veterans Affairs	19.2	19.2	21.0	22.1	22.8	23.0	28.7	24.5	19.1	20.8	21.7

TABLE 114. Federal obligations for development, by agency: FY 1987–97

(Dollars in millions)

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Other agencies											
Agency for International Development	63.5	69.3	60.0	29.3	20.4	65.9	23.0	38.1	29.8	18.0	29.7
Consumer Product Safety Commission	1.6	0.9	0.8	0.7	0.4	0.3	0.4	0.2	0.4	*	0.0
Environmental Protection Agency	71.0	79.5	107.0	104.5	79.5	79.6	133.7	151.2	149.9	83.5	83.1
Library of Congress	5.0	5.5	6.4	7.0	7.3	8.5	8.7	8.1	8.0	8.4	1.9
National Aeronautics and Space Administration	1,517.8	1,998.8	2,514.7	3,472.6	3,909.1	4,428.3	4,471.1	4,455.7	4,968.9	4,692.1	5,142.4
National Archives and Records Administration	0.4	0.2	0.1	0.1	0.1	0.1	*	0.0	0.0	0.0	0.0
Tennessee Valley Authority	60.2	68.8	48.0	43.2	49.5	72.9	80.6	71.9	66.7	1.9	4.9
U.S. Arms Control and Disarmament Agency	3.2	2.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Information Agency	3.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 115. Federal obligations for development, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All agencies	41,178.5	41,813.1	34,392.7	35,219.5	37,846.3	42,589.5	48,018.7	55,485.3	56,610.2	59,426.9	56,637.3
Departments											
Department of Agriculture	107.1	126.1	135.4	155.3	161.3	170.5	183.4	181.5	183.1	179.1	173.4
Agricultural Marketing Service	0.7	0.7	0.8	0.7	0.8	0.7	1.0	0.2	0.0	0.0	0.0
Agricultural Research Service	68.2	77.0	79.6	89.5	95.4	95.6	109.8	110.8	113.5	107.0	102.2
Animal and Plant Health Inspection Service	20.5	20.4	20.6	25.4	23.7	28.0	24.4	24.4	25.5	26.1	31.3
Food Safety Inspection Service	0.1	0.4	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Forest Service	15.5	27.6	31.2	33.2	35.4	40.9	41.4	46.2	44.1	46.1	39.9
Grain Inspection, Packers, and Stockyards Administration	2.2	0.0	2.9	6.1	6.0	5.3	6.7	0.0	0.0	0.0	0.0
Department of Commerce	141.6	142.2	140.7	169.6	156.9	153.8	171.0	143.9	101.5	118.2	91.4
National Institute of Standards and Technology	89.0	93.3	95.6	85.2	96.7	95.0	84.5	61.2	30.3	43.5	9.3
National Oceanic and Atmospheric Administration	27.4	18.4	18.7	22.1	22.0	19.8	46.3	63.5	55.1	58.7	60.8
National Telecommunications and Information Administration	21.8	21.4	17.7	46.2	15.5	17.1	17.8	0.0	0.0	0.0	0.0
U.S. Census Bureau	3.4	9.1	8.7	16.1	22.7	21.9	22.4	19.3	16.1	16.0	21.3
Department of Defense	31,316.3	31,503.6	28,246.7	28,616.4	31,291.8	36,215.6	41,397.0	47,831.9	48,534.6	51,588.8	48,849.1
Defense agencies and activities	6,387.8	5,800.0	5,291.5	6,871.8	9,422.2	10,290.9	11,189.0	13,572.5	12,563.0	14,940.2	14,180.8
Department of the Air Force	13,102.2	13,257.6	9,958.5	7,801.8	5,526.9	7,063.7	8,410.5	9,100.3	8,752.7	9,137.6	9,307.7
Materiel Command	na	na	na	na	3,313.6	4,324.7	5,365.4	6,175.8	5,474.5	5,797.9	5,573.0
Space Command	na	na	na	na	2,213.3	2,738.9	3,045.2	2,924.5	3,278.1	3,339.7	3,734.7
Department of the Army	4,219.9	4,190.5	4,352.8	5,135.7	5,965.1	6,492.0	7,751.9	8,508.1	9,865.7	9,286.7	9,154.6
Department of the Navy	7,334.1	7,953.5	8,354.0	8,576.6	10,144.1	12,133.4	13,747.5	16,343.5	17,174.3	18,043.7	16,025.4
Operational Test and Evaluation, Director	30.3	44.7	32.9	205.3	233.5	235.7	298.2	307.5	178.9	180.6	180.5
Test and Evaluation, Deputy Under Secretary of Defense	242.0	257.3	257.0	25.3	na	na	na	na	na	na	na
Department of Education	55.7	75.1	83.8	94.4	102.1	101.2	100.6	102.0	121.4	126.3	127.8
Department of Energy	2,086.3	2,089.9	1,962.2	2,074.9	1,981.7	2,151.3	2,055.7	2,029.7	1,841.7	1,954.7	2,103.1
Bonneville Power Administration	NA	NA	NA	NA	8.7	8.7	9.3	2.3	1.0	2.5	2.2
Electricity Delivery and Energy Restoration	NA	NA	NA	NA	NA	NA	NA	13.9	40.1	28.3	24.5
Energy Efficiency and Renewable Energy	NA	NA	NA	NA	446.2	371.8	317.0	285.5	219.3	318.7	274.2
Environmental Management	NA	NA	NA	NA	73.5	48.6	30.0	34.8	23.8	15.0	15.0
Fossil Energy	NA	NA	NA	NA	218.3	383.5	294.9	350.4	217.5	220.9	200.5
National Nuclear Security Administration	NA	NA	NA	NA	1,229.8	1,317.0	1,399.8	1,341.4	1,338.6	1,359.9	1,402.8
Defense Programs	NA	NA	NA	NA	478.7	566.8	621.5	539.4	517.4	555.6	588.6
Fissile Materials Disposition	NA	NA	NA	NA	27.4	25.1	1.0	0.0	0.0	0.0	0.0
Naval Reactors	NA	NA	NA	NA	637.0	650.0	708.6	740.5	720.4	727.6	737.5
Nonproliferation and Verification	NA	NA	NA	NA	86.8	75.1	68.7	61.5	100.8	76.7	76.7
Nuclear Energy	NA	NA	NA	NA	0.0	17.7	4.8	1.3	1.5	9.6	184.0

TABLE 115. Federal obligations for development, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Office of Intelligence	NA	NA	NA	NA	5.3	4.0	0.0	0.0	0.0	0.0	0.0
Department of Health and Human Services	1,883.2	2,200.1	512.8	693.3	780.7	111.3	142.0	128.5	86.0	31.9	32.5
Administration on Aging	8.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	7.7	10.9	11.9	21.6	23.9	24.7	24.3	25.5	25.5	25.5	26.4
Agency for Toxic Substances and Disease Registry	na	na	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Health Resources and Services Administration	0.0	0.0	0.0	34.9	36.8	26.7	30.5	35.2	6.2	6.4	6.2
National Institutes of Health	1,591.0	1,879.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Secretary	3.1	3.8	3.1	2.5	2.5	2.6	0.0	0.0	0.0	0.0	0.0
Office of Public Health and Science	3.1	3.8	3.1	2.5	2.5	2.6	0.0	0.0	0.0	0.0	0.0
Substance Abuse and Mental Health Services Administration	273.4	289.3	497.8	634.3	717.6	57.2	87.2	67.6	54.3	0.0	0.0
Department of Homeland Security	na	na	na	na	na	NA	532.6	765.0	1,119.2	567.4	418.5
Science and Technology Directorate	na	na	na	na	na	NA	507.7	756.2	1,096.0	550.5	406.2
Transportation Security Administration	na	na	na	na	na	NA	15.0	0.0	9.1	2.6	0.0
U.S. Coast Guard	na	na	na	na	na	NA	9.9	8.8	14.2	14.2	12.3
Department of Housing and Urban Development	18.8	37.9	30.1	34.9	29.1	25.1	29.2	27.0	22.0	24.6	26.7
Department of the Interior	29.1	31.5	31.4	46.9	75.4	63.3	58.1	58.3	52.0	63.9	61.1
Bureau of Reclamation	2.2	2.6	2.5	2.4	6.8	6.1	7.1	8.3	5.7	5.5	5.9
Geological Survey	26.9	28.9	29.0	41.5	60.1	53.3	48.2	49.6	46.0	58.3	55.3
National Park Service <sup>a</sup>	0.0	0.0	0.0	2.9	8.6	3.9	2.8	0.4	0.2	0.0	0.0
Department of Justice	58.6	64.6	30.9	41.6	50.0	91.6	58.2	69.9	75.0	107.8	58.3
Bureau of Prisons	3.8	3.5	4.3	5.6	5.1	5.0	5.8	8.4	9.4	8.6	8.6
Federal Bureau of Investigation	35.8	36.3	10.0	19.0	33.6	42.8	34.0	33.5	34.3	70.8	22.9
Immigration and Naturalization Service	0.0	0.2	0.6	0.9	0.0	na	na	na	na	na	na
Office of Justice Programs	19.0	24.5	16.1	16.0	11.4	43.8	18.5	28.0	31.2	28.3	26.8
Department of Labor	5.7	26.4	37.5	40.3	120.9	152.8	161.9	128.4	65.1	184.2	159.0
Employment and Training Administration	5.0	25.0	35.9	35.9	119.3	151.0	161.0	127.0	63.5	182.6	157.5
Office of the Secretary	0.1	0.8	1.0	3.8	0.9	1.0	0.1	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corporation	0.6	0.6	0.7	0.6	0.7	0.8	0.9	1.3	1.6	1.6	1.5
Department of Transportation	165.1	190.3	123.0	228.7	284.6	260.4	269.1	163.8	284.0	271.2	253.4
Federal Aviation Administration	76.4	63.0	54.6	100.8	100.3	109.4	99.5	98.2	123.4	101.4	98.4
Federal Highway Administration	57.7	85.4	33.9	82.5	119.8	112.4	121.5	22.2	111.7	139.9	125.7
Federal Motor Carrier Safety Administration	na	na	1.1	3.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
Federal Railroad Administration	0.3	0.6	3.1	0.3	3.5	3.4	4.3	5.0	6.4	2.8	4.9
Federal Transit Administration	10.2	15.7	8.9	8.0	5.2	7.1	4.6	3.9	13.0	6.4	8.9
Office of the Secretary	3.4	9.1	4.0	13.0	18.4	21.0	31.8	21.0	14.8	4.9	9.1
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	0.0	0.0	0.0	0.0	7.4	12.1	13.0	12.1	4.3
Research and Innovative Technology Administration	na	na	na	na	na	na	0.0	1.4	1.7	3.8	2.1

TABLE 115. Federal obligations for development, by agency: FY 1998–2008  
(Dollars in millions)

Agency	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Research and Special Programs Administration	1.7	1.3	2.3	3.1	6.4	7.1	na	na	na	na	na
Transportation Security Administration	na	na	na	na	11.8	na	na	na	na	na	na
U.S. Coast Guard	15.3	15.2	15.0	17.7	15.6	na	na	na	na	na	na
Department of the Treasury	12.5	14.0	10.3	4.5	12.6	1.3	1.2	3.0	4.4	4.5	4.1
Bureau of Engraving and Printing	0.1	0.1	0.2	*	1.8	0.6	0.2	0.6	0.7	1.0	1.1
Internal Revenue Service	4.1	7.8	7.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	8.3	5.3	1.8	3.0	10.6	na	na	na	na	na	na
U.S. Mint	0.1	0.8	1.3	0.8	0.3	0.7	1.0	2.4	3.7	3.5	3.0
Department of Veterans Affairs	8.0	6.8	7.0	6.8	14.5	15.8	21.3	19.3	19.7	19.8	19.7
Other agencies											
Agency for International Development	39.1	39.3	29.5	27.8	22.2	23.6	23.4	40.8	40.0	40.0	40.0
Environmental Protection Agency	94.0	95.8	91.5	99.8	91.5	105.3	125.1	116.0	116.7	104.1	101.8
Federal Communications Commission	0.0	0.0	0.0	0.0	0.0	0.0	4.4	3.7	0.4	2.2	0.5
Library of Congress	1.1	1.8	1.9	1.1	1.3	1.2	1.6	7.0	4.0	6.7	4.1
National Aeronautics and Space Administration	5,154.4	5,167.8	2,917.9	2,883.1	2,669.7	2,945.5	2,683.1	3,665.7	3,939.2	4,031.5	4,112.9
Tennessee Valley Authority	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

\* = amount greater than \$0 but less than \$50,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

<sup>a</sup> Obligations for FY 2006–08 are for National Park Service's (NPS) natural resources program only; data for NPS's cultural resources program were not available for this survey cycle.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 116. Federal obligations for research and development, by performer: FY 1967–2008  
(Dollars in millions)

Fiscal year	Total R&D	Intramural <sup>a</sup>	Extramural							
			United States and U.S. territories							
			Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
1967	16,529.1	3,395.7	9,877.8	384.7	1,454.3	666.5	400.1	223.5	63.5	63.1
1968	15,921.2	3,493.1	9,047.0	414.2	1,487.4	713.7	377.5	234.5	100.2	53.5
1969	15,640.9	3,501.2	8,703.1	427.1	1,529.2	722.0	364.2	240.7	102.2	51.1
1970	15,338.9	4,079.3	7,770.1	430.7	1,475.6	751.1	444.9	247.4	99.6	40.2
1971	15,542.5	4,228.3	7,587.5	480.2	1,644.6	728.9	458.8	210.2	141.1	63.1
1972	16,495.9	4,589.2	7,716.0	529.9	1,903.5	760.6	514.9	215.4	206.7	59.6
1973	16,800.2	4,762.2	7,731.3	582.4	1,916.6	725.3	578.2	183.1	256.8	64.4
1974	17,410.1	4,910.9	7,752.3	592.8	2,214.0	789.1	672.2	199.3	214.4	65.1
1975	19,038.8	5,354.0	8,423.2	703.7	2,411.4	935.1	702.3	219.9	227.6	61.6
1976	20,779.7	5,768.7	9,340.3	813.8	2,551.8	1,061.1	708.6	231.0	231.2	73.1
1977	23,450.4	6,011.7	10,717.2	1,112.7	2,905.5	1,313.1	800.0	263.9	238.0	88.2
1978	25,845.1	6,810.4	11,400.0	1,242.5	3,374.6	1,311.9	998.2	315.9	268.4	123.2
1979	28,145.1	7,417.5	12,172.4	1,318.1	3,888.8	1,488.3	1,026.5	368.7	310.1	154.7
1980	29,830.4	7,632.3	12,969.1	1,408.1	4,263.4	1,533.3	1,105.6	441.8	265.5	211.2
1981	33,103.9	8,425.7	14,867.9	1,413.9	4,465.8	1,791.0	1,068.8	525.2	222.2	323.4
1982	36,432.6	9,141.0	17,192.2	1,506.4	4,605.5	1,976.7	1,091.7	520.6	184.3	214.3
1983	38,711.5	10,581.9	17,019.7	1,501.2	4,966.4	2,393.9	1,241.6	581.3	186.0	239.5
1984	42,224.9	11,572.3	18,610.4	1,608.4	5,546.9	2,485.8	1,497.3	597.1	130.9	175.8
1985	48,359.6	12,945.4	21,704.9	1,790.8	6,339.7	2,816.4	1,699.2	689.2	129.4	244.5
1986	51,412.4	13,534.9	24,201.2	1,697.0	6,558.8	2,767.7	1,677.0	551.2	128.4	296.3
1987	55,253.7	13,413.1	26,768.2	1,860.0	7,337.3	3,209.6	1,711.4	510.6	148.2	295.3
1988	56,769.4	14,114.6	26,719.2	1,911.3	7,827.7	3,473.9	1,683.2	505.6	142.1	391.8
1989	61,406.5	15,024.6	28,547.9	2,056.3	8,672.0	3,497.1	1,999.9	522.0	167.4	919.4
1990	63,559.5	15,848.9	29,370.0	2,326.8	9,137.5	3,449.8	2,248.2	621.6	213.9	342.6
1991	61,295.2	15,138.2	26,420.6	2,168.3	10,168.5	3,603.8	2,637.4	679.4	215.1	263.9
1992	65,592.6	15,582.8	29,744.8	2,117.0	10,271.2	3,855.5	2,803.6	745.6	184.1	287.9
1993	67,314.0	16,663.3	30,219.0	1,451.3	11,208.4	3,614.2	2,811.9	753.4	320.3	272.2
1994	67,235.4	16,132.1	30,454.9	1,293.5	11,796.9	3,292.9	2,936.9	736.0	325.4	266.8
1995	68,186.8	17,024.8	30,236.1	1,201.8	11,927.5	3,561.6	2,834.1	825.1	316.5	259.2
1996	67,653.0	16,540.4	30,373.8	1,137.0	11,977.8	3,447.1	2,886.8	755.2	246.7	288.3
1997	69,826.8	16,718.2	31,419.3	1,128.2	12,559.0	3,701.0	2,961.6	821.0	261.1	257.5
1998	72,100.7	17,121.5	31,998.6	1,188.9	13,380.7	3,890.2	3,171.3	603.0	447.5	299.1
1999	75,340.6	18,084.7	31,901.7	1,328.0	14,959.1	3,896.4	3,608.7	913.2	357.5	291.4
2000	72,863.3	17,149.8	27,735.1	1,100.9	16,821.0	4,053.2	4,211.2	1,231.5	224.0	336.7
2001	79,933.2	20,219.8	27,006.2	1,186.6	19,587.9	4,617.7	5,138.8	1,269.1	450.6	456.5
2002	85,853.0	21,044.8	29,538.2	1,351.1	21,290.1	4,641.2	5,739.1	1,404.8	452.2	391.6
2003	93,661.3	22,861.6	33,852.7	1,507.6	22,693.5	4,754.2	5,706.7	1,352.8	400.0	532.4
2004	101,376.5	22,423.2	39,214.6	1,543.1	24,169.7	5,400.9	5,623.7	1,443.2	880.1	677.9
2005	109,223.5	24,125.4	44,112.5	1,612.1	24,841.5	5,686.1	5,910.0	1,649.2	660.8	625.8
2006	110,145.8	25,563.2	44,152.9	1,421.9	24,336.3	5,439.1	6,000.1	1,816.0	619.6	796.7
2007 (preliminary)	114,501.5	25,550.8	44,304.6	4,655.3	25,008.3	5,655.8	6,063.8	2,048.0	555.7	659.3
2008 (preliminary)	111,346.0	25,047.8	45,059.3	1,654.9	24,588.2	5,746.9	5,897.7	2,150.2	528.4	672.7

FFRDC = federally funded research and development center.

<sup>a</sup> Intramural activities cover costs associated with administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

<sup>b</sup> In FY 2007 Department of the Army misreported approximately \$3.2 billion of major systems development obligations to industry FFRDCs; these obligations should have been reported to industry. Reporting of actual FY 2007 data in the forthcoming Volume 57 (FY 2007–09) of the Federal Funds series of detailed statistical tables will correct this error.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 117. Federal obligations for research, by performer: FY 1967–2008  
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
1967	4,631.4	1,461.3	1,038.5	69.1	1,312.1	355.0	248.7	47.6	53.2	45.7
1968	4,781.1	1,541.4	1,093.6	64.4	1,301.8	378.9	234.1	40.5	81.9	44.5
1969	4,644.9	1,645.3	886.4	69.9	1,321.8	335.5	221.7	47.6	75.1	41.7
1970	4,900.8	1,903.9	876.5	72.5	1,276.4	382.6	230.5	45.1	83.4	29.9
1971	5,123.2	1,887.9	889.0	75.7	1,430.2	358.9	282.0	52.0	95.8	51.6
1972	5,547.7	1,984.4	906.6	75.3	1,642.8	398.4	342.0	59.9	93.8	44.5
1973	5,581.4	2,088.5	887.3	68.7	1,691.1	355.2	316.2	50.2	84.3	40.0
1974	6,175.2	2,270.2	874.6	98.2	1,958.3	374.0	414.2	50.8	91.0	44.0
1975	6,729.7	2,463.8	1,010.2	135.7	2,078.8	425.5	394.7	64.8	111.9	44.3
1976	7,619.3	2,879.2	1,103.0	176.5	2,249.7	548.3	435.4	57.5	119.4	50.4
1977	8,514.1	2,957.7	1,367.3	192.2	2,583.5	670.3	512.2	55.6	115.2	60.3
1978	9,606.8	3,220.8	1,651.4	235.2	2,928.0	714.9	590.9	66.9	128.8	69.9
1979	10,535.0	3,481.2	1,762.0	245.0	3,333.4	800.6	622.6	73.4	139.5	77.4
1980	11,597.4	3,666.3	2,077.6	311.0	3,699.1	851.2	678.4	71.7	150.9	91.1
1981	12,212.8	4,034.2	1,958.3	351.3	3,920.1	940.6	705.2	67.7	129.3	106.0
1982	13,022.2	4,194.2	2,156.6	487.3	4,045.4	1,056.7	743.5	104.2	125.9	108.3
1983	14,253.5	4,710.3	2,114.2	522.6	4,467.9	1,250.1	836.9	85.2	136.7	129.6
1984	14,978.8	4,764.7	2,137.4	496.5	5,029.7	1,335.9	922.6	87.3	88.2	116.5
1985	16,133.4	5,056.1	2,074.4	485.9	5,726.3	1,421.3	1,045.1	97.0	89.5	137.9
1986	16,502.2	5,160.3	2,280.5	482.1	5,883.4	1,291.7	1,062.9	87.9	91.0	162.4
1987	17,940.5	5,437.7	2,448.6	433.5	6,640.2	1,471.0	1,207.5	89.8	90.2	121.9
1988	18,650.1	5,338.4	2,642.5	455.2	7,022.9	1,564.8	1,300.0	82.9	103.1	140.4
1989	20,765.5	5,897.0	2,875.0	604.3	7,793.1	1,703.4	1,519.8	109.5	121.2	142.1
1990	21,622.4	5,809.8	3,191.6	614.3	8,136.5	1,791.5	1,660.0	137.6	126.4	154.5
1991	23,968.4	6,454.4	3,406.5	709.6	8,867.5	2,160.9	1,925.9	170.9	129.3	143.4
1992	24,490.6	6,523.3	3,451.2	684.9	9,060.7	2,351.8	2,049.6	139.9	109.3	120.0
1993	26,890.5	7,451.8	3,923.8	799.3	9,892.3	2,299.4	2,041.3	173.4	211.8	97.4
1994	27,411.2	7,481.1	4,063.9	737.2	10,291.7	2,181.1	2,102.1	178.4	230.8	144.8
1995	28,434.4	7,684.5	4,698.7	811.6	10,353.8	2,233.6	2,078.7	207.2	221.4	144.8
1996	28,259.8	7,513.2	4,269.1	696.2	10,706.6	2,385.0	2,178.9	195.5	187.4	127.8
1997	29,365.3	7,666.9	4,392.1	759.6	11,173.2	2,598.9	2,294.9	217.5	144.0	118.2
1998	30,922.3	7,969.1	4,632.7	844.1	11,739.0	2,743.0	2,425.2	214.5	240.1	114.5
1999	33,527.5	8,685.8	4,579.8	879.3	13,203.8	2,554.1	2,806.7	469.5	232.4	116.1
2000	38,470.6	9,449.6	4,800.7	700.3	16,021.8	2,773.2	3,714.5	696.1	162.5	152.0
2001	44,713.7	11,130.9	5,262.3	822.3	18,657.1	3,096.3	4,577.9	739.4	308.7	118.9
2002	48,006.7	11,857.4	5,786.8	937.3	20,285.4	3,219.4	4,723.0	749.6	275.5	172.3
2003	51,071.8	12,419.6	6,042.4	1,103.5	21,676.5	3,272.6	5,196.3	779.0	305.8	276.1
2004	53,357.8	12,085.2	6,782.7	1,131.6	22,699.1	3,687.3	5,216.4	795.5	532.9	427.0
2005	53,738.2	12,349.9	6,456.4	1,082.0	23,156.0	3,743.4	5,295.8	907.8	376.8	370.2
2006	53,535.7	12,261.6	6,436.3	947.9	22,809.4	3,783.0	5,448.9	1,028.6	417.9	402.1
2007 (preliminary)	55,074.6	12,343.5	6,981.9	895.9	23,297.2	4,052.4	5,507.0	1,190.0	398.3	408.3
2008 (preliminary)	54,708.7	12,544.3	6,400.1	945.1	23,169.1	4,157.5	5,453.5	1,241.5	392.4	405.1

FFRDC = federally funded research and development center.

<sup>a</sup> Intramural activities cover costs associated with administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 118. Federal obligations for basic research, by performer: FY 1967–2008  
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
1967	1,845.8	434.9	180.9	30.3	857.1	203.7	104.9	7.9	4.2	21.9
1968	1,840.6	431.6	195.0	30.1	835.1	225.2	93.4	3.0	11.8	15.5
1969	1,944.8	531.9	184.7	29.8	864.3	219.3	85.5	3.3	13.3	12.6
1970	1,925.9	558.4	185.0	29.7	808.1	237.0	80.1	3.5	13.9	10.1
1971	1,980.1	565.4	166.6	29.2	879.4	227.7	85.2	2.2	16.6	7.9
1972	2,186.9	596.9	151.4	32.2	1,021.4	254.5	96.4	7.2	15.6	11.2
1973	2,232.0	608.1	176.1	39.4	1,048.2	229.0	98.5	3.4	16.2	13.1
1974	2,387.7	695.9	124.0	31.5	1,144.7	223.1	127.1	6.2	16.8	18.3
1975	2,588.4	733.5	118.5	47.9	1,260.6	257.5	128.2	13.8	14.0	14.3
1976	2,767.5	786.0	131.1	59.8	1,341.7	284.9	126.5	7.9	12.9	16.6
1977	3,258.6	914.1	208.1	53.1	1,555.1	324.1	162.5	5.6	15.6	20.4
1978	3,698.6	1,029.3	247.7	65.4	1,759.2	356.8	192.8	5.8	17.1	24.6
1979	4,192.7	1,089.1	277.1	66.6	2,079.9	393.6	240.3	6.7	19.8	19.5
1980	4,674.2	1,182.5	325.3	70.4	2,320.3	436.8	279.5	7.5	23.9	28.1
1981	5,041.3	1,301.8	292.9	73.3	2,503.2	490.6	313.1	8.6	26.5	31.2
1982	5,481.6	1,465.5	270.9	87.4	2,727.1	516.7	355.6	9.0	24.5	24.9
1983	6,260.1	1,689.8	292.9	83.0	3,112.3	604.0	409.6	8.0	32.1	28.5
1984	7,067.4	1,861.1	377.9	91.1	3,530.8	668.9	473.6	8.2	28.1	27.7
1985	7,818.7	1,923.4	380.1	122.6	4,038.7	724.2	555.8	12.4	30.5	30.9
1986	8,153.1	2,018.9	511.6	117.6	4,132.1	724.1	572.1	13.0	30.9	32.7
1987	8,942.4	2,046.2	467.0	119.9	4,665.6	906.7	657.7	13.3	37.5	28.5
1988	9,473.6	2,050.3	596.9	133.0	4,868.3	989.8	728.6	17.7	42.7	46.3
1989	10,602.0	2,313.4	773.2	223.9	5,221.4	1,098.1	838.9	42.2	43.6	47.4
1990	11,285.6	2,294.6	887.5	246.8	5,548.2	1,227.3	924.1	59.2	50.4	47.6
1991	12,170.8	2,391.6	949.9	264.0	6,064.5	1,306.2	1,015.5	80.8	49.1	49.1
1992	12,489.9	2,337.6	920.3	247.2	6,331.8	1,394.1	1,097.2	65.5	42.4	53.8
1993	13,399.1	2,661.8	896.3	243.6	6,833.7	1,402.7	1,164.9	71.3	71.7	53.3
1994	13,523.5	2,497.8	1,109.6	237.6	6,992.3	1,336.0	1,132.9	74.4	75.2	67.6
1995	13,877.0	2,693.5	1,214.2	239.8	6,943.9	1,438.8	1,148.3	75.2	78.7	44.6
1996	14,464.0	2,676.7	1,108.8	272.8	7,443.5	1,521.0	1,234.6	76.1	80.2	50.5
1997	14,941.9	2,688.3	1,166.7	294.7	7,695.8	1,600.0	1,289.6	88.4	68.4	49.9
1998	15,613.0	2,918.5	1,119.4	326.4	7,951.7	1,642.3	1,397.6	121.8	84.9	50.4
1999	17,443.7	3,255.2	1,082.8	313.4	9,107.1	1,565.5	1,650.0	354.9	61.4	53.4
2000	19,569.8	3,621.8	1,356.5	171.3	10,056.7	1,674.0	1,985.3	521.6	75.7	106.9
2001	21,958.1	4,193.8	917.1	175.1	11,792.2	1,762.1	2,441.7	540.5	71.6	64.0
2002	23,668.3	4,460.0	1,231.9	239.6	12,668.2	1,805.2	2,531.7	563.4	71.5	96.8
2003	24,751.4	4,662.1	1,279.6	312.8	13,151.8	1,827.8	2,703.9	582.1	85.4	146.1
2004	26,120.7	4,671.6	1,969.4	292.2	13,398.5	2,005.8	2,746.1	606.8	197.9	232.3
2005	27,140.3	4,772.7	2,051.0	270.1	13,989.9	2,021.2	2,914.2	670.7	235.9	214.6
2006	26,584.6	4,763.6	1,858.9	220.4	13,657.6	2,096.8	2,867.4	755.8	152.7	211.2
2007 (preliminary)	27,476.5	4,888.7	1,978.0	235.6	13,930.5	2,324.6	2,839.1	916.3	152.2	211.6
2008 (preliminary)	27,720.7	4,911.2	1,974.9	229.8	14,002.5	2,408.0	2,858.0	971.1	153.6	211.6

FFRDC = federally funded research and development center.

<sup>a</sup> Intramural activities cover costs associated with administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.



TABLE 119. Federal obligations for applied research, by performer: FY 1967–2008  
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	Foreign
1967	2,785.5	1,026.4	857.7	38.8	455.0	151.3	143.9	39.7	49.0	23.9
1968	2,940.5	1,109.8	898.5	34.3	466.7	153.7	140.7	37.5	70.2	29.1
1969	2,700.1	1,113.4	701.7	40.0	457.4	116.2	136.2	44.2	61.8	29.0
1970	2,974.9	1,345.5	691.5	42.8	468.4	145.6	150.3	41.6	69.5	19.8
1971	3,143.0	1,322.5	722.4	46.4	550.8	131.2	196.9	49.8	79.2	43.7
1972	3,360.8	1,387.5	755.2	43.1	621.4	144.0	245.5	52.6	78.2	33.3
1973	3,349.4	1,480.4	711.2	29.3	642.9	126.2	217.7	46.8	68.1	26.9
1974	3,787.6	1,574.3	750.7	66.7	813.5	150.9	287.1	44.6	74.2	25.7
1975	4,141.3	1,730.3	891.7	87.8	818.2	168.0	266.4	51.0	97.9	30.0
1976	4,851.9	2,093.1	971.9	116.7	908.0	263.4	308.9	49.6	106.5	33.8
1977	5,255.5	2,043.6	1,159.1	139.1	1,028.4	346.2	349.6	49.9	99.6	39.9
1978	5,908.2	2,191.5	1,403.7	169.8	1,168.8	358.1	398.1	61.2	111.8	45.3
1979	6,342.3	2,392.1	1,484.9	178.3	1,253.5	407.0	382.3	66.7	119.7	57.9
1980	6,923.2	2,483.8	1,752.3	240.7	1,378.8	414.3	398.9	64.2	127.1	63.0
1981	7,171.5	2,732.4	1,665.4	278.1	1,416.9	450.0	392.1	59.1	102.8	74.8
1982	7,540.6	2,728.7	1,885.7	400.0	1,318.3	540.0	387.9	95.2	101.4	83.4
1983	7,993.4	3,020.4	1,821.3	439.7	1,355.6	646.1	427.3	77.1	104.7	101.1
1984	7,911.4	2,903.6	1,759.5	405.4	1,498.9	667.0	449.0	79.1	60.0	88.8
1985	8,314.7	3,132.7	1,694.3	363.3	1,687.6	697.1	489.3	84.6	58.9	107.0
1986	8,349.1	3,141.5	1,768.8	364.5	1,751.4	567.6	490.8	74.9	60.0	129.7
1987	8,998.1	3,391.5	1,981.6	313.6	1,974.6	564.3	549.8	76.5	52.7	93.4
1988	9,176.5	3,288.1	2,045.6	322.2	2,154.6	575.0	571.3	65.2	60.4	94.1
1989	10,163.5	3,583.5	2,101.8	380.5	2,571.8	605.4	681.0	67.3	77.6	94.6
1990	10,336.8	3,515.2	2,304.2	367.5	2,588.4	564.3	735.9	78.4	76.1	106.9
1991	11,797.6	4,062.8	2,456.6	445.6	2,803.0	854.7	910.4	90.1	80.2	94.3
1992	12,000.7	4,185.7	2,530.9	437.6	2,728.9	957.6	952.5	74.5	66.9	66.2
1993	13,491.4	4,790.0	3,027.5	555.6	3,058.6	896.8	876.4	102.2	140.1	44.1
1994	13,887.7	4,983.3	2,954.4	499.6	3,299.4	845.1	969.2	104.0	155.5	77.2
1995	14,557.4	4,991.0	3,484.5	571.8	3,409.9	794.8	930.4	132.0	142.7	100.3
1996	13,795.7	4,836.5	3,160.3	423.4	3,263.1	864.0	944.3	119.4	107.3	77.4
1997	14,423.4	4,978.6	3,225.5	464.9	3,477.4	998.8	1,005.3	129.2	75.5	68.2
1998	15,309.3	5,050.6	3,513.3	517.7	3,787.3	1,100.7	1,027.7	92.6	155.2	64.1
1999	16,083.9	5,430.6	3,497.0	565.8	4,096.7	988.6	1,156.7	114.6	171.0	62.8
2000	18,900.8	5,827.8	3,444.2	528.9	5,965.1	1,099.2	1,729.2	174.5	86.9	45.1
2001	22,755.6	6,937.2	4,345.2	647.2	6,864.9	1,334.2	2,136.2	198.9	237.1	54.9
2002	24,338.4	7,397.4	4,554.9	697.7	7,617.2	1,414.1	2,191.3	186.2	204.0	75.6
2003	26,320.4	7,757.5	4,762.8	790.7	8,524.7	1,444.8	2,492.5	197.0	220.4	130.0
2004	27,237.1	7,413.6	4,813.3	839.3	9,300.6	1,681.6	2,470.3	188.7	335.0	194.7
2005	26,597.9	7,577.2	4,405.4	811.9	9,166.1	1,722.2	2,381.6	237.1	140.9	155.6
2006	26,951.1	7,498.0	4,577.4	727.5	9,151.8	1,686.2	2,581.5	272.8	265.1	190.9
2007 (preliminary)	27,598.1	7,454.8	5,003.9	660.3	9,366.8	1,727.8	2,667.9	273.8	246.1	196.7
2008 (preliminary)	26,988.0	7,633.1	4,425.2	715.4	9,166.7	1,749.5	2,595.5	270.3	238.8	193.6

FFRDC = federally funded research and development center.

<sup>a</sup> Intramural activities cover costs associated with administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 120. Federal obligations for development, by performer: FY 1967–2008  
(Dollars in millions)

Fiscal year	Extramural									
	Total	Intramural <sup>a</sup>	United States and U.S. territories							Foreign
			Industry <sup>b</sup>	Industry FFRDC <sup>b</sup>	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
1967	11,897.7	1,934.4	8,839.2	315.6	142.2	311.4	151.4	176.0	10.3	17.3
1968	11,140.1	1,951.8	7,953.4	349.9	185.6	334.9	143.4	194.0	18.3	9.0
1969	10,996.0	1,855.9	7,816.7	357.2	207.4	386.5	142.6	193.1	27.0	9.4
1970	10,438.1	2,175.4	6,893.7	358.2	199.1	368.6	214.4	202.3	16.2	10.3
1971	10,419.3	2,340.4	6,698.5	404.5	214.4	370.0	176.8	158.2	45.2	11.4
1972	10,948.2	2,604.8	6,809.5	454.6	260.7	362.1	172.9	155.6	112.9	15.1
1973	11,218.7	2,673.7	6,844.0	513.6	225.5	370.1	262.0	132.8	172.6	24.4
1974	11,234.9	2,640.7	6,877.7	494.6	255.7	415.2	258.1	148.6	123.3	21.0
1975	12,309.1	2,890.2	7,413.0	568.0	332.7	509.6	307.7	155.1	115.7	17.3
1976	13,160.3	2,889.6	8,237.3	637.3	302.1	512.8	273.1	173.5	111.8	22.7
1977	14,936.3	3,054.0	9,350.0	920.6	322.0	642.8	287.9	208.3	122.9	27.9
1978	16,238.4	3,589.7	9,748.6	1,007.3	446.6	597.1	407.3	249.0	139.6	53.2
1979	17,610.1	3,936.3	10,410.5	1,073.1	555.5	687.7	403.8	295.4	170.7	77.3
1980	18,233.1	3,966.1	10,891.5	1,097.0	564.4	682.2	427.1	370.1	114.6	120.1
1981	20,891.1	4,391.5	12,909.6	1,062.6	545.6	850.4	363.6	457.5	92.9	217.5
1982	23,410.4	4,946.8	15,035.6	1,019.1	560.0	920.0	348.1	416.4	58.4	106.0
1983	24,458.0	5,871.7	14,905.5	978.5	498.5	1,143.8	404.7	496.1	49.3	109.9
1984	27,246.1	6,807.6	16,472.9	1,112.0	517.2	1,149.9	574.6	509.8	42.8	59.2
1985	32,226.1	7,889.3	19,630.5	1,304.9	613.5	1,395.1	654.1	592.2	39.9	106.7
1986	34,910.2	8,374.6	21,920.7	1,215.0	675.4	1,476.0	614.1	463.3	37.4	133.9
1987	37,313.2	7,975.3	24,319.6	1,426.4	697.0	1,738.6	503.9	420.8	58.0	173.4
1988	38,119.3	8,776.2	24,076.7	1,456.1	804.8	1,909.1	383.2	422.7	39.0	251.4
1989	40,641.0	9,127.6	25,672.9	1,452.0	878.8	1,793.6	480.0	412.4	46.3	777.3
1990	41,937.1	10,039.1	26,178.4	1,712.5	1,001.0	1,658.3	588.2	484.0	87.5	188.1
1991	37,326.8	8,683.8	23,014.1	1,458.7	1,301.0	1,442.9	711.5	508.5	85.8	120.5
1992	41,102.0	9,059.6	26,293.6	1,432.2	1,210.6	1,503.7	753.9	605.7	74.8	167.9
1993	40,423.5	9,211.6	26,295.2	652.1	1,316.1	1,314.8	770.6	580.0	108.5	174.8
1994	39,824.2	8,650.9	26,390.9	556.3	1,505.2	1,111.8	834.8	557.6	94.7	122.0
1995	39,752.4	9,340.2	25,537.4	390.2	1,573.7	1,328.0	755.4	617.9	95.1	114.4
1996	39,393.3	9,027.2	26,104.7	440.7	1,271.2	1,062.1	707.9	559.7	59.3	160.5
1997	40,461.5	9,051.3	27,027.2	368.6	1,385.7	1,102.1	666.7	603.4	117.1	139.3
1998	41,178.5	9,152.4	27,365.9	344.7	1,641.7	1,147.2	746.0	388.5	207.4	184.6
1999	41,813.1	9,398.9	27,321.8	448.8	1,755.3	1,342.3	802.0	443.7	125.1	175.2
2000	34,392.7	7,700.2	22,934.4	400.6	799.3	1,279.9	496.8	535.4	61.5	184.7
2001	35,219.5	9,088.9	21,744.0	364.3	930.8	1,521.4	560.8	529.7	142.0	337.6
2002	37,846.3	9,187.4	23,751.4	413.7	1,004.7	1,421.8	1,016.1	655.2	176.7	219.2
2003	42,589.5	10,442.0	27,810.3	404.1	1,017.0	1,481.6	510.3	573.7	94.1	256.3
2004	48,018.7	10,338.0	32,431.8	411.6	1,470.6	1,713.5	407.4	647.7	347.2	250.9
2005	55,485.3	11,775.5	37,656.1	530.1	1,685.6	1,942.8	614.1	741.5	284.1	255.6
2006	56,610.2	13,301.6	37,716.6	474.0	1,526.9	1,656.1	551.2	787.4	201.7	394.6
2007 (preliminary)	59,426.9	13,207.3	37,322.6	3,759.4	1,711.1	1,603.5	556.8	858.0	157.4	251.0
2008 (preliminary)	56,637.3	12,503.5	38,659.2	709.7	1,419.1	1,589.4	444.2	908.7	136.0	267.6

FFRDC = federally funded research and development center.

<sup>a</sup> Intramural activities cover costs associated with administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

<sup>b</sup> In FY 2007 Department of the Army misreported approximately \$3.2 billion of major systems development obligations to industry FFRDCs; these obligations should have been reported to industry. Reporting of actual FY 2007 data in the forthcoming Volume 57 (FY 2007–09) of the Federal Funds series of detailed statistical tables will correct this error.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research. See appendix C for additional notes associated with agencies listed in this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 121. Federal obligations for R&D plant, by performer: FY 1967–2008  
(Dollars in millions)

			Extramural							
			United States and U.S. territories							Foreign
Fiscal year	Total	Intramural <sup>a</sup>	Industry	FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments	
1967	620.1	239.0	NA	NA	111.7	138.8	NA	NA	130.5	0.1
1968	603.8	294.2	40.9	40.8	98.1	101.7	11.1	9.8	7.3	0.0
1969	669.0	260.4	53.8	87.9	61.9	176.6	4.6	21.2	1.6	0.9
1970	524.4	166.0	41.4	60.9	56.1	169.0	4.7	24.1	2.1	0.1
1971	611.2	202.8	54.0	110.6	49.2	178.7	2.5	3.3	1.2	8.9
1972	602.1	246.6	67.1	75.3	45.3	130.4	28.1	1.8	4.7	2.7
1973	774.3	323.8	76.8	145.0	42.6	162.3	15.8	3.1	3.0	1.9
1974	766.3	308.7	64.3	229.8	25.0	118.4	6.2	2.1	11.9	*
1975	820.7	346.8	62.3	229.7	35.9	131.8	10.5	3.6	0.2	*
1976	836.7	316.8	73.7	205.9	35.2	189.6	10.9	4.7	0.0	0.0
1977	1,367.2	711.9	103.4	215.8	33.7	277.8	6.7	6.1	0.6	11.2
1978	1,295.7	518.0	76.9	257.0	54.6	376.3	4.4	8.3	0.0	0.1
1979	1,475.5	544.8	214.4	224.4	42.0	414.1	9.2	17.7	0.3	8.4
1980	1,555.7	491.1	304.0	256.0	40.3	426.3	8.6	24.6	0.8	3.9
1981	1,485.7	468.0	302.1	246.5	37.0	370.9	41.3	15.1	0.0	4.8
1982	1,389.8	426.0	110.4	362.2	30.3	441.7	6.6	9.4	0.0	3.2
1983	1,297.5	393.9	259.3	166.4	33.6	353.0	82.1	7.9	0.0	1.2
1984	1,787.3	632.8	451.5	196.6	78.5	363.2	55.6	4.2	0.0	4.9
1985	1,820.8	625.3	298.3	187.8	140.8	454.2	69.9	9.1	0.1	35.5
1986	1,538.8	317.1	409.2	215.9	133.2	420.9	11.8	9.6	0.0	21.0
1987	1,846.0	301.6	668.1	212.9	231.1	400.5	20.6	5.4	0.0	5.8
1988	2,057.1	319.6	719.5	204.3	245.8	535.3	23.7	6.2	0.3	2.4
1989	2,165.1	329.5	900.4	212.3	204.9	489.9	14.2	8.4	1.4	4.2
1990	2,271.7	359.0	882.9	231.0	157.3	495.8	113.0	31.4	0.5	0.9
1991	2,852.8	518.8	1,003.1	278.7	253.3	624.2	145.4	19.7	0.6	9.2
1992	2,984.6	506.2	1,014.4	202.2	241.5	579.5	393.9	46.3	0.5	0.0
1993	3,100.7	432.0	1,048.2	124.4	361.4	619.5	415.6	65.5	0.5	33.5
1994	2,215.4	392.6	746.8	119.4	253.2	608.8	20.9	72.9	0.8	0.2
1995	2,256.1	479.8	695.3	95.1	327.3	543.8	25.6	62.6	0.5	26.1
1996	1,746.1	405.1	465.4	43.9	243.1	497.8	23.4	66.1	1.0	0.5
1997	1,926.7	608.3	389.8	60.5	238.6	560.7	16.7	52.0	0.0	0.1
1998	1,813.3	448.4	487.7	45.6	139.5	663.6	10.9	12.1	5.5	0.0
1999	2,045.7	483.3	544.7	172.8	141.2	615.5	12.2	70.7	5.3	*
2000	4,492.8	573.3	2,814.6	27.6	213.5	613.8	55.5	193.5	0.9	0.1
2001	4,069.8	520.4	2,179.8	41.8	284.7	615.9	27.9	357.5	1.4	40.4
2002	4,304.7	414.8	2,524.9	109.1	241.1	583.3	29.1	388.8	2.0	11.7
2003	4,266.5	609.7	1,817.0	145.7	686.9	578.4	70.7	333.9	0.8	23.4
2004	3,994.2	961.3	1,442.0	188.3	354.3	603.9	164.5	252.4	15.8	11.7
2005	3,771.1	859.3	1,381.4	125.7	423.0	558.3	134.6	218.0	55.2	15.6
2006	2,124.8	662.8	265.8	82.7	262.5	519.3	127.3	201.6	2.6	0.3
2007 (preliminary)	2,198.2	600.5	241.5	22.9	318.1	572.1	135.0	307.3	0.4	0.3
2008 (preliminary)	1,866.6	348.7	220.8	59.7	320.4	414.0	139.3	363.1	0.4	0.3

\* = amount greater than \$0 but less than \$50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

FFRDC = federally funded research and development center.

<sup>a</sup> Intramural activities cover costs associated with administration of intramural and extramural programs by federal personnel as well as actual intramural performance.

NOTES: Because of rounding, detail may not add to total. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 122. Federal obligations for research, by detailed field of science and engineering: FY 1987-97

(Dollars in millions)

Field	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All fields	17,940.5	18,650.1	20,765.5	21,622.4	23,968.4	24,490.6	26,890.5	27,411.2	28,434.4	28,259.8	29,365.3
Environmental sciences	1,511.6	1,607.0	1,773.2	2,174.1	2,149.8	2,207.6	2,608.5	2,838.2	2,854.4	3,019.7	3,045.7
Atmospheric sciences	552.9	587.8	588.0	773.4	802.7	767.3	984.1	1,095.0	1,135.6	1,085.7	1,164.3
Geological sciences	441.7	441.6	542.8	661.1	728.7	735.7	797.9	838.0	848.3	784.3	691.8
Oceanography	427.4	460.4	491.9	520.1	398.6	458.9	467.4	496.8	407.3	574.3	597.7
Environmental sciences, nec	89.5	117.1	150.5	219.5	219.8	245.8	359.2	408.5	463.3	575.4	591.8
Life sciences	7,341.4	7,724.5	8,495.1	8,829.8	9,622.0	9,910.5	10,772.1	11,284.3	11,811.0	12,064.3	12,661.3
Biological and agricultural sciences	4,358.5	4,573.4	5,020.0	5,178.4	5,597.9	5,633.6	6,059.3	6,103.0	6,402.5	6,629.9	6,544.0
Agricultural sciences	566.9	590.7	669.0	691.4	680.3	687.5	712.9	727.2	670.3	616.0	641.3
Biological sciences (excluding environmental biology)	3,502.0	3,681.7	3,983.2	4,144.6	4,457.8	4,435.1	4,789.9	4,745.8	4,925.4	5,309.9	5,320.2
Environmental biology	289.6	301.0	367.8	342.3	459.7	511.0	556.5	629.9	806.9	704.0	582.5
Medical sciences	2,664.8	2,941.0	3,222.5	3,382.4	3,460.3	3,909.9	4,404.4	4,862.1	4,972.2	4,973.4	5,532.7
Life sciences, nec	318.2	210.1	252.6	269.1	563.8	367.0	308.3	319.3	436.3	461.1	584.6
Mathematics and computer sciences	640.6	642.9	735.4	840.7	903.7	1,160.3	1,225.4	1,301.6	1,579.1	1,571.6	1,671.8
Computer sciences	297.8	292.7	364.6	562.1	584.9	771.8	826.1	830.2	1,013.9	1,119.8	1,264.7
Mathematics	204.5	217.9	236.1	241.3	227.6	318.7	290.8	342.3	258.6	254.5	301.6
Mathematics and computer sciences, nec	138.3	132.3	134.8	37.3	91.1	69.9	108.5	129.1	306.6	197.3	105.5
Physical sciences	3,252.6	3,317.3	3,705.2	3,808.7	4,235.3	4,439.2	4,427.0	4,253.5	4,278.3	3,923.0	4,149.2
Astronomy	522.2	470.8	541.9	597.2	631.7	739.1	686.3	747.6	764.5	729.0	774.7
Chemistry	680.3	703.1	782.6	761.7	828.4	896.2	843.2	874.4	863.5	881.1	845.8
Physics	1,853.6	1,975.3	2,190.8	2,254.9	2,460.9	2,578.2	2,638.4	2,443.1	2,451.2	1,991.3	2,067.6
Physical sciences, nec	196.6	168.1	189.9	195.0	314.3	225.7	259.2	188.3	199.2	321.6	461.0
Psychology	369.5	389.8	421.7	448.6	482.4	298.1	550.7	548.4	622.6	525.0	545.4
Biological aspects	98.3	105.3	121.8	130.6	140.2	34.6	37.2	48.1	58.8	62.8	57.8
Social aspects	154.5	149.4	149.9	177.5	197.5	100.9	134.7	116.8	156.3	83.4	96.7
Psychological sciences, nec	116.7	135.2	149.9	140.5	144.8	162.6	378.7	383.4	407.5	378.8	390.9
Social sciences	480.0	485.8	551.0	630.0	727.3	689.7	674.9	647.4	678.7	654.6	696.3
Anthropology	15.2	14.3	13.9	14.4	16.0	14.1	13.7	16.2	21.7	18.3	21.0
Economics	148.5	159.5	166.8	197.2	187.4	211.6	204.7	193.3	206.5	194.2	205.2
Political science	11.3	12.2	13.5	13.1	17.0	22.6	29.2	25.4	22.3	16.7	14.1
Sociology	74.0	81.8	94.1	116.2	184.0	80.7	76.7	68.1	47.8	41.2	25.9
Social sciences, nec	231.0	218.0	262.8	289.1	322.9	360.8	350.5	344.4	380.3	384.2	430.2
Other sciences, nec	438.3	526.5	641.6	663.7	903.4	808.3	1,132.5	1,058.4	901.8	820.7	905.3
Engineering	3,906.3	3,956.4	4,442.2	4,226.6	4,944.5	4,977.0	5,499.4	5,479.4	5,708.4	5,680.9	5,690.3
Aeronautical engineering	810.4	801.8	986.8	927.1	1,016.2	874.6	1,193.0	1,222.7	1,248.3	1,249.4	1,352.7
Astronautical engineering	624.6	575.4	677.4	580.8	653.1	630.4	494.0	499.1	546.5	526.6	596.3
Chemical engineering	215.8	258.1	142.2	241.9	304.3	297.5	245.5	238.2	246.1	215.1	235.0
Civil engineering	204.4	214.9	229.8	317.7	305.0	330.2	252.0	277.9	339.4	300.2	275.6
Electrical engineering	786.3	731.1	843.1	640.0	729.9	759.0	881.5	741.8	756.3	669.7	622.2

TABLE 122. Federal obligations for research, by detailed field of science and engineering: FY 1987–97

(Dollars in millions)

Field	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Mechanical engineering	233.5	240.8	257.4	268.3	335.5	337.2	466.9	378.1	412.5	294.0	254.6
Metallurgy and materials engineering	362.0	456.7	521.0	554.5	710.7	727.2	695.7	851.4	815.3	989.0	860.7
Engineering, nec	669.3	677.8	784.5	696.3	889.8	1,020.8	1,270.9	1,270.2	1,344.0	1,437.0	1,493.2

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 123. Federal obligations for research, by detailed field of science and engineering: FY 1998–2008

(Dollars in millions)

Field	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All fields	30,922.3	33,527.5	38,470.6	44,713.7	48,006.7	51,071.8	53,357.8	53,738.2	53,535.7	55,074.6	54,708.7
Environmental sciences	3,062.0	3,095.3	3,328.8	3,251.7	3,418.3	3,740.9	3,741.6	3,502.6	3,430.6	3,343.2	3,408.3
Atmospheric sciences	1,174.4	1,176.5	1,104.3	1,113.6	1,163.5	1,259.4	1,259.7	1,185.1	1,166.9	NA	NA
Geological sciences	603.3	660.2	639.2	673.8	674.9	725.0	704.5	673.5	653.9	NA	NA
Oceanography	559.8	656.6	673.0	681.1	784.6	846.1	809.1	771.5	745.8	NA	NA
Environmental sciences, nec	724.4	602.0	912.2	783.3	795.2	910.3	968.4	872.5	864.0	NA	NA
Life sciences	13,557.6	15,422.5	17,964.7	23,057.3	25,476.8	27,772.2	27,728.5	28,127.8	27,927.7	27,814.4	27,532.7
Biological and agricultural sciences	7,073.8	8,047.7	12,375.0	14,116.4	16,325.1	20,407.3	14,848.7	15,144.8	15,485.6	NA	NA
Agricultural sciences	762.8	849.4	895.0	1,007.7	1,047.6	1,046.0	1,086.8	1,094.2	1,108.2	NA	NA
Biological sciences (excluding environmental biology)	5,706.6	6,477.6	10,740.0	12,380.0	14,498.5	18,643.5	13,091.9	13,351.6	13,690.8	NA	NA
Environmental biology	604.5	720.6	740.0	728.8	778.9	717.9	670.0	699.0	686.6	NA	NA
Medical sciences	5,996.3	6,801.2	4,463.8	6,585.2	6,427.4	6,160.3	10,898.8	10,862.1	10,592.2	NA	NA
Life sciences, nec	487.4	573.6	1,125.9	2,355.7	2,724.4	1,204.6	1,981.0	2,120.9	1,849.9	NA	NA
Mathematics and computer sciences	1,836.8	1,980.6	2,205.6	2,610.6	2,630.7	2,672.5	2,949.4	2,983.4	2,814.9	3,193.6	3,129.2
Computer sciences	1,398.7	1,516.1	1,659.6	2,022.8	2,043.2	2,052.8	2,144.9	2,157.1	1,987.8	NA	NA
Mathematics	334.1	345.3	432.9	396.4	402.0	452.9	617.8	686.6	669.2	NA	NA
Mathematics and computer sciences, nec	104.0	119.2	113.1	191.4	185.5	166.7	186.7	139.7	157.9	NA	NA
Physical sciences	4,209.7	4,066.2	4,788.0	4,600.8	4,983.2	5,021.6	5,211.1	5,493.7	5,351.1	5,467.9	5,607.0
Astronomy	732.2	757.9	880.3	759.2	751.5	871.8	920.8	884.9	792.5	NA	NA
Chemistry	819.0	814.9	1,225.6	1,024.9	1,181.7	1,137.9	1,191.0	1,197.5	1,126.4	NA	NA
Physics	2,131.8	2,221.9	2,405.4	2,461.7	2,621.4	2,500.2	2,598.6	3,041.3	3,001.8	NA	NA
Physical sciences, nec	526.7	271.4	276.7	354.9	428.6	511.7	500.8	370.0	430.5	NA	NA
Psychology	591.0	632.6	1,626.7	741.9	905.9	1,104.4	1,854.9	1,891.8	1,747.3	1,757.0	1,758.3
Biological aspects	41.6	18.0	8.2	13.6	10.6	23.2	6.0	2.3	3.0	NA	NA
Social aspects	97.5	66.6	56.0	59.8	52.5	50.6	51.7	46.6	40.9	NA	NA
Psychological sciences, nec	451.9	547.9	1,562.5	668.5	842.8	1,030.6	1,797.2	1,842.8	1,703.4	NA	NA
Social sciences	806.1	854.9	1,050.4	1,008.6	983.0	1,025.8	1,089.6	1,097.1	1,123.9	1,141.0	1,146.3
Anthropology	18.2	18.3	15.9	15.6	16.4	14.5	15.0	18.0	15.1	NA	NA
Economics	230.5	216.6	249.5	234.1	227.3	234.5	204.6	215.9	202.6	NA	NA
Political science	20.2	20.2	22.6	19.5	18.4	18.5	18.7	32.7	44.6	NA	NA
Sociology	100.8	83.8	90.6	95.5	96.1	124.7	120.1	70.2	144.2	NA	NA
Social sciences, nec	436.4	516.0	671.8	644.0	624.7	633.6	731.2	760.4	717.4	NA	NA
Other sciences, nec	963.7	1,212.1	1,160.2	1,245.8	1,334.0	1,329.3	1,916.3	2,088.9	2,461.3	2,931.6	2,868.5
Engineering	5,895.4	6,263.4	6,346.4	8,197.0	8,274.9	8,405.1	8,866.4	8,552.9	8,678.7	9,426.0	9,258.4
Aeronautical engineering	1,596.4	1,609.7	1,463.9	2,430.1	2,157.1	1,732.2	1,640.8	1,276.3	1,229.2	NA	NA
Astronautical engineering	631.1	620.6	515.0	752.7	760.8	702.5	664.9	494.1	476.3	NA	NA
Chemical engineering	190.1	203.2	196.5	199.0	201.6	327.9	318.8	283.8	294.6	NA	NA
Civil engineering	244.1	328.5	239.2	288.4	302.7	339.6	330.3	279.2	352.7	NA	NA
Electrical engineering	639.3	698.7	744.8	889.7	808.7	950.0	890.9	1,033.5	1,035.5	NA	NA

TABLE 123. Federal obligations for research, by detailed field of science and engineering: FY 1998–2008

(Dollars in millions)

Field	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Mechanical engineering	249.6	240.4	289.3	319.2	265.9	298.4	301.9	323.7	298.2	NA	NA
Metallurgy and materials engineering	789.1	788.0	918.1	1,080.8	1,000.5	1,083.7	1,037.2	1,184.1	1,250.0	NA	NA
Engineering, nec	1,555.6	1,774.3	1,979.6	2,237.0	2,777.6	2,970.8	3,681.6	3,678.3	3,742.3	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 124. Federal obligations for basic research, by detailed field of science and engineering: FY 1987-97

(Dollars in millions)

Field	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All fields	8,942.4	9,473.6	10,602.0	11,285.6	12,170.8	12,489.9	13,399.1	13,523.5	13,877.0	14,464.0	14,941.9
Environmental sciences	781.0	872.7	1,016.9	1,274.8	1,263.5	1,303.6	1,533.5	1,516.5	1,467.5	1,554.0	1,543.5
Atmospheric sciences	243.8	280.7	316.4	443.7	449.0	435.2	635.1	698.3	688.2	671.2	679.5
Geological sciences	266.2	267.3	334.9	439.7	499.0	526.5	555.3	487.8	451.7	390.0	388.3
Oceanography	249.8	269.4	293.5	299.7	197.5	210.0	207.2	190.2	188.2	309.1	303.5
Environmental sciences, nec	21.2	55.2	72.1	91.6	118.0	131.9	135.9	140.2	139.3	183.8	172.1
Life sciences	4,361.9	4,501.8	4,915.7	5,177.5	5,433.6	5,841.7	6,288.8	6,472.1	6,601.3	6,879.0	7,203.8
Biological and agricultural sciences	2,870.4	2,855.3	3,102.9	3,219.0	3,374.9	3,517.6	3,787.8	3,751.9	3,836.5	3,922.4	3,945.1
Agricultural sciences	267.9	293.7	298.4	308.5	319.4	334.2	342.2	370.6	367.5	329.5	348.1
Biological sciences (excluding environmental biology)	2,461.5	2,414.9	2,647.2	2,742.2	2,868.5	2,981.8	3,222.5	3,139.2	3,248.3	3,387.2	3,391.0
Environmental biology	141.0	146.8	157.3	168.3	186.9	201.6	223.2	242.1	220.6	205.7	206.1
Medical sciences	1,341.0	1,573.2	1,708.4	1,849.6	1,857.7	2,131.0	2,380.9	2,610.3	2,615.9	2,740.8	3,035.2
Life sciences, nec	150.6	73.2	104.4	108.9	201.0	193.1	120.1	109.9	148.9	215.9	223.4
Mathematics and computer sciences	306.4	313.2	345.8	406.9	426.1	481.4	511.3	521.7	603.0	639.6	661.4
Computer sciences	128.5	125.5	159.5	225.2	223.5	247.7	284.3	262.3	317.1	376.8	389.5
Mathematics	158.4	165.4	167.8	176.3	164.4	228.2	221.8	247.7	164.0	162.6	238.2
Mathematics and computer sciences, nec	19.5	22.4	18.4	5.3	38.2	5.5	5.1	11.8	121.9	100.2	33.6
Physical sciences	2,096.0	2,199.6	2,506.5	2,661.5	2,881.5	2,951.4	2,907.1	2,826.9	2,864.8	2,862.6	2,976.4
Astronomy	504.5	458.5	524.6	579.9	612.3	729.7	663.4	724.8	731.6	708.8	754.2
Chemistry	445.1	470.8	504.6	502.1	538.7	556.6	543.7	540.3	559.4	550.7	517.8
Physics	1,072.3	1,205.5	1,395.3	1,474.3	1,644.9	1,607.5	1,600.6	1,502.3	1,507.4	1,545.6	1,561.7
Physical sciences, nec	74.2	64.8	81.9	105.1	85.5	57.6	99.4	59.6	66.4	57.4	142.6
Psychology	147.1	177.8	187.1	215.1	225.5	122.6	246.8	246.1	278.0	291.5	293.9
Biological aspects	49.3	52.4	61.0	65.3	68.2	14.3	18.1	24.8	31.4	33.5	30.2
Social aspects	45.5	40.9	38.1	60.9	69.2	16.9	16.0	16.3	22.2	10.1	13.0
Psychological sciences, nec	52.3	84.5	88.0	88.8	88.1	91.4	212.7	205.0	224.4	248.0	250.7
Social sciences	129.5	146.8	154.6	146.0	161.3	139.9	194.1	184.0	206.7	212.5	221.0
Anthropology	12.3	12.1	12.1	12.5	12.7	11.0	10.0	9.7	15.1	12.7	14.8
Economics	29.0	34.7	37.7	37.1	37.3	39.3	46.0	38.4	44.7	39.4	46.1
Political science	5.5	5.1	5.4	6.4	7.1	6.4	6.4	4.8	7.1	5.7	4.9
Sociology	34.3	36.8	38.2	24.2	28.2	10.2	11.1	13.1	14.3	13.3	8.2
Social sciences, nec	48.4	58.1	61.2	65.8	75.9	72.9	120.6	118.1	125.5	141.3	147.0
Other sciences, nec	130.9	255.5	291.7	302.3	545.6	399.4	510.1	465.6	406.9	412.8	459.0
Engineering	989.5	1,006.2	1,183.7	1,101.5	1,233.7	1,249.8	1,207.4	1,290.4	1,448.9	1,612.1	1,583.0
Aeronautical engineering	237.4	231.0	327.9	269.6	256.2	245.1	246.2	275.9	271.0	261.7	269.1
Astronautical engineering	48.8	48.4	58.9	62.3	69.7	94.4	53.6	59.8	66.3	71.8	69.8
Chemical engineering	77.5	88.6	50.1	75.8	101.7	105.0	72.8	70.9	66.7	59.8	68.1
Civil engineering	45.7	46.1	51.7	47.3	59.3	53.4	38.7	38.1	70.1	52.9	45.4
Electrical engineering	175.4	154.0	173.8	146.9	142.5	165.4	203.1	205.7	204.6	201.5	172.9



TABLE 124. Federal obligations for basic research, by detailed field of science and engineering: FY 1987–97

(Dollars in millions)

Field	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Mechanical engineering	87.2	83.5	100.8	91.4	115.6	113.9	142.6	141.6	164.7	113.2	104.9
Metallurgy and materials engineering	209.8	230.1	254.8	260.2	294.6	273.6	241.3	330.2	368.5	501.8	462.6
Engineering, nec	107.8	124.4	165.7	147.9	194.3	199.2	209.1	168.3	236.9	349.4	390.4

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 125. Federal obligations for basic research, by detailed field of science and engineering: FY 1998–2008

(Dollars in millions)

Field	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All fields	15,613.0	17,443.7	19,569.8	21,958.1	23,668.3	24,751.4	26,120.7	27,140.3	26,584.6	27,476.5	27,720.7
Environmental sciences	1,528.7	1,615.7	1,838.4	1,663.0	1,833.3	1,899.5	2,022.9	1,966.1	1,849.5	1,897.9	1,957.2
Atmospheric sciences	655.2	671.0	717.0	597.2	684.1	668.1	726.8	743.6	666.3	NA	NA
Geological sciences	391.2	412.1	429.6	400.6	426.0	461.9	482.0	470.3	444.6	NA	NA
Oceanography	286.0	383.9	364.9	402.4	427.0	442.2	452.6	431.1	416.5	NA	NA
Environmental sciences, nec	196.4	148.7	326.9	262.9	296.1	327.3	361.5	321.1	322.2	NA	NA
Life sciences	7,853.4	9,197.1	10,049.0	12,835.5	14,024.1	14,765.3	14,490.0	15,247.6	14,934.4	14,793.1	14,732.2
Biological and agricultural sciences	4,222.3	4,941.6	7,610.4	8,773.8	9,244.8	11,323.8	8,055.6	8,458.2	8,558.4	NA	NA
Agricultural sciences	372.5	424.5	445.7	511.7	530.6	528.3	503.7	511.2	514.3	NA	NA
Biological sciences (excluding environmental biology)	3,653.0	4,236.9	6,851.1	7,952.3	8,379.7	10,471.5	7,222.8	7,608.0	7,699.8	NA	NA
Environmental biology	196.8	280.2	313.6	309.8	334.5	324.0	329.1	339.0	344.3	NA	NA
Medical sciences	3,392.4	3,956.5	1,923.8	2,808.6	3,361.0	2,919.1	5,477.2	5,702.7	5,454.4	NA	NA
Life sciences, nec	238.6	299.1	514.7	1,253.1	1,418.3	522.3	957.1	1,086.7	921.7	NA	NA
Mathematics and computer sciences	705.5	734.9	798.3	957.8	998.7	1,120.2	1,239.1	1,228.4	1,208.2	1,317.5	1,394.5
Computer sciences	419.1	438.3	463.0	585.6	636.9	730.5	712.2	658.1	670.9	NA	NA
Mathematics	250.7	254.0	308.6	288.4	325.6	359.8	479.1	542.5	518.6	NA	NA
Mathematics and computer sciences, nec	35.6	42.6	26.6	83.9	36.2	30.0	47.9	27.8	18.7	NA	NA
Physical sciences	2,941.4	3,089.8	3,470.6	3,327.1	3,405.9	3,454.0	3,662.6	3,738.7	3,515.5	3,800.9	3,940.0
Astronomy	706.9	718.4	794.0	650.2	603.3	696.0	765.4	778.4	686.9	NA	NA
Chemistry	517.5	554.6	765.8	736.8	748.8	748.6	776.0	764.0	720.7	NA	NA
Physics	1,579.8	1,693.8	1,764.4	1,762.3	1,861.7	1,820.6	1,904.5	1,995.9	1,910.8	NA	NA
Physical sciences, nec	137.1	122.9	146.4	177.9	192.0	188.8	216.7	200.4	197.1	NA	NA
Psychology	312.0	347.3	817.8	292.9	464.6	543.8	979.2	1,040.1	944.9	952.6	948.6
Biological aspects	27.3	12.2	5.7	10.4	7.8	10.6	0.9	0.3	0.7	NA	NA
Social aspects	12.9	9.9	14.3	5.5	4.8	4.1	5.0	4.3	4.9	NA	NA
Psychological sciences, nec	271.8	325.1	797.8	277.0	452.0	529.2	973.2	1,035.5	939.3	NA	NA
Social sciences	224.8	246.5	308.0	278.4	361.7	352.8	419.3	391.4	381.0	393.3	397.3
Anthropology	13.5	13.4	14.0	14.1	15.2	12.7	12.9	15.2	14.1	NA	NA
Economics	41.5	45.3	51.8	42.5	45.3	48.2	48.0	51.3	46.3	NA	NA
Political science	4.6	4.8	5.1	5.9	5.7	6.0	6.7	10.5	11.0	NA	NA
Sociology	23.5	9.2	11.8	17.9	19.5	48.7	48.6	17.9	19.2	NA	NA
Social sciences, nec	141.7	173.9	225.4	198.0	276.0	237.1	303.1	296.5	290.3	NA	NA
Other sciences, nec	452.7	572.5	523.6	691.7	715.2	702.7	1,035.9	1,227.5	1,386.5	1,640.9	1,639.7
Engineering	1,594.4	1,639.7	1,764.2	1,911.5	1,864.9	1,913.1	2,271.7	2,300.5	2,364.6	2,680.4	2,711.2
Aeronautical engineering	285.2	331.7	322.8	369.7	330.1	255.8	304.2	317.7	242.7	NA	NA
Astronautical engineering	68.0	66.2	88.7	33.9	68.1	59.5	67.1	72.9	57.8	NA	NA
Chemical engineering	52.3	55.2	52.6	60.2	62.3	71.5	68.6	66.8	67.6	NA	NA
Civil engineering	35.9	68.8	59.7	47.9	46.5	51.1	55.6	62.2	67.4	NA	NA
Electrical engineering	213.9	185.6	177.0	246.9	213.0	226.3	199.6	212.6	205.1	NA	NA

TABLE 125. Federal obligations for basic research, by detailed field of science and engineering: FY 1998–2008  
(Dollars in millions)

Field	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Mechanical engineering	106.7	99.6	93.4	128.8	89.2	96.3	89.6	76.7	70.5	NA	NA
Metallurgy and materials engineering	478.2	481.2	517.8	591.1	507.8	581.0	592.0	665.9	811.4	NA	NA
Engineering, nec	354.3	351.4	452.2	433.1	547.8	571.7	895.0	825.7	842.1	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 126. Federal obligations for applied research, by detailed field of science and engineering: FY 1987-97

(Dollars in millions)

Field	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All fields	8,998.1	9,176.5	10,163.5	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,557.4	13,795.7	14,423.4
Environmental sciences	730.6	734.3	756.3	899.3	886.3	904.0	1,075.0	1,321.7	1,387.0	1,465.7	1,502.2
Atmospheric sciences	309.1	307.1	271.6	329.7	353.7	332.0	349.0	396.7	447.3	414.6	484.8
Geological sciences	175.6	174.3	207.8	221.4	229.7	209.2	242.6	350.1	396.6	394.3	303.5
Oceanography	177.6	190.9	198.4	220.4	201.0	248.9	260.2	306.6	219.1	265.2	294.2
Environmental sciences, nec	68.3	61.9	78.5	127.8	101.7	113.8	223.3	268.3	324.0	391.7	419.7
Life sciences	2,979.5	3,222.7	3,579.4	3,652.3	4,188.4	4,068.8	4,483.3	4,812.2	5,209.8	5,185.3	5,457.6
Biological and agricultural sciences	1,488.1	1,718.0	1,917.2	1,959.4	2,223.0	2,116.0	2,271.5	2,351.1	2,566.0	2,707.6	2,598.9
Agricultural sciences	299.1	297.0	370.7	382.9	360.9	353.4	370.8	356.7	302.8	286.5	293.2
Biological sciences (excluding environmental biology)	1,040.5	1,266.8	1,336.0	1,402.5	1,589.3	1,453.2	1,567.4	1,606.6	1,677.1	1,922.8	1,929.2
Environmental biology	148.6	154.2	210.5	174.0	272.8	309.4	333.3	387.8	586.2	498.3	376.4
Medical sciences	1,323.8	1,367.8	1,514.1	1,532.7	1,602.6	1,778.9	2,023.5	2,251.8	2,356.3	2,232.6	2,497.6
Life sciences, nec	167.6	136.9	148.1	160.2	362.9	173.9	188.2	209.3	287.4	245.2	361.1
Mathematics and computer sciences	334.3	329.6	389.7	433.9	477.6	678.9	714.1	779.9	976.1	932.0	1,010.5
Computer sciences	169.3	167.2	205.1	336.9	361.4	524.0	541.8	567.9	696.8	743.1	875.1
Mathematics	46.1	52.5	68.3	65.0	63.2	90.5	68.9	94.7	94.6	91.8	63.4
Mathematics and computer sciences, nec	118.9	109.9	116.3	31.9	52.9	64.3	103.4	117.3	184.7	97.1	71.9
Physical sciences	1,156.6	1,117.7	1,198.8	1,147.2	1,353.9	1,487.7	1,519.8	1,426.5	1,413.5	1,060.4	1,172.8
Astronomy	17.7	12.3	17.3	17.2	19.3	9.4	22.8	22.8	32.9	20.2	20.6
Chemistry	235.2	232.3	278.0	259.6	289.7	339.6	299.5	334.2	304.1	330.4	327.9
Physics	781.4	769.8	795.5	780.6	816.0	970.7	1,037.7	940.9	943.8	445.7	505.9
Physical sciences, nec	122.4	103.3	108.0	89.8	228.9	168.1	159.8	128.7	132.7	264.2	318.4
Psychology	222.4	212.0	234.5	233.5	256.9	175.6	303.9	302.2	344.6	233.5	251.5
Biological aspects	49.1	52.9	60.8	65.3	72.0	20.3	19.1	23.3	27.4	29.3	27.6
Social aspects	108.9	108.4	111.8	116.5	128.2	84.1	118.7	100.5	134.1	73.4	83.7
Psychological sciences, nec	64.4	50.7	61.9	51.7	56.7	71.2	166.1	178.4	183.1	130.8	140.2
Social sciences	350.5	339.0	396.4	484.0	566.0	549.8	480.8	463.3	472.0	442.1	475.3
Anthropology	2.9	2.2	1.8	1.9	3.3	3.1	3.7	6.6	6.6	5.6	6.2
Economics	119.6	124.8	129.1	160.1	150.1	172.3	158.7	154.9	161.8	154.8	159.1
Political science	5.8	7.1	8.1	6.8	10.0	16.1	22.8	20.6	15.2	10.9	9.2
Sociology	39.6	45.0	55.9	92.0	155.7	70.5	65.6	55.0	33.5	27.9	17.7
Social sciences, nec	182.6	159.9	201.6	223.3	246.9	287.9	229.9	226.2	254.9	242.8	283.2
Other sciences, nec	307.4	271.0	350.0	361.5	357.8	408.8	622.4	592.8	494.9	407.9	446.3
Engineering	2,916.8	2,950.2	3,258.4	3,125.1	3,710.8	3,727.1	4,292.0	4,189.0	4,259.5	4,068.9	4,107.3
Aeronautical engineering	573.0	570.8	658.9	657.5	760.0	629.5	946.8	946.8	977.2	987.6	1,083.7
Astronautical engineering	575.9	526.9	618.5	518.5	583.4	536.0	440.4	439.3	480.2	454.7	526.5
Chemical engineering	138.3	169.5	92.2	166.0	202.6	192.5	172.7	167.3	179.4	155.4	166.9
Civil engineering	158.7	168.7	178.1	270.4	245.7	276.9	213.3	239.8	269.3	247.3	230.2
Electrical engineering	610.9	577.1	669.3	493.1	587.4	593.6	678.4	536.1	551.7	468.3	449.3

TABLE 126. Federal obligations for applied research, by detailed field of science and engineering: FY 1987–97

(Dollars in millions)

Field	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Mechanical engineering	146.2	157.2	156.5	176.9	220.0	223.4	324.3	236.5	247.8	180.8	149.7
Metallurgy and materials engineering	152.2	226.6	266.2	294.3	416.1	453.6	454.3	521.2	446.9	487.2	398.1
Engineering, nec	561.6	553.3	618.8	548.4	695.4	821.6	1,061.7	1,102.0	1,107.1	1,087.6	1,102.8

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions have been reported with National Institutes of Health data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported. National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 engineering field data (such as mechanical engineering).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 127. Federal obligations for applied research, by detailed field of science and engineering: FY 1998–2008

(Dollars in millions)

Field	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
All fields	15,309.3	16,083.9	18,900.8	22,755.6	24,338.4	26,320.4	27,237.1	26,597.9	26,951.1	27,598.1	26,988.0
Environmental sciences	1,533.2	1,479.5	1,490.3	1,588.6	1,585.0	1,841.4	1,718.7	1,536.5	1,581.1	1,445.4	1,451.1
Atmospheric sciences	519.2	505.5	387.3	516.4	479.4	591.3	532.9	441.5	500.7	NA	NA
Geological sciences	212.1	248.1	209.6	273.2	248.9	263.1	222.5	203.2	209.3	NA	NA
Oceanography	273.8	272.7	308.1	278.7	357.6	403.9	356.5	340.4	329.4	NA	NA
Environmental sciences, nec	528.1	453.3	585.3	520.4	499.1	583.0	606.9	551.4	541.8	NA	NA
Life sciences	5,704.2	6,225.3	7,915.7	10,221.8	11,452.7	13,007.0	13,238.5	12,880.2	12,993.3	13,021.3	12,800.5
Biological and agricultural sciences	2,851.5	3,106.1	4,764.6	5,342.7	7,080.2	9,083.5	6,793.0	6,686.6	6,927.2	NA	NA
Agricultural sciences	390.3	424.9	449.2	496.0	517.1	517.7	583.1	583.0	593.9	NA	NA
Biological sciences (excluding environmental biology)	2,053.6	2,240.7	3,888.9	4,427.7	6,118.8	8,172.0	5,869.1	5,743.6	5,991.1	NA	NA
Environmental biology	407.6	440.4	426.4	419.0	444.4	393.8	340.8	360.0	342.3	NA	NA
Medical sciences	2,603.9	2,844.7	2,540.0	3,776.6	3,066.4	3,241.2	5,421.5	5,159.4	5,137.8	NA	NA
Life sciences, nec	248.8	274.6	611.2	1,102.6	1,306.0	682.3	1,023.9	1,034.2	928.2	NA	NA
Mathematics and computer sciences	1,131.4	1,245.7	1,407.3	1,652.8	1,632.0	1,552.2	1,710.3	1,754.9	1,606.7	1,876.1	1,734.7
Computer sciences	979.6	1,077.8	1,196.6	1,437.2	1,406.3	1,322.3	1,432.7	1,499.0	1,316.9	NA	NA
Mathematics	83.3	91.3	124.3	108.0	76.4	93.2	138.7	144.1	150.5	NA	NA
Mathematics and computer sciences, nec	68.4	76.6	86.5	107.6	149.3	136.7	138.9	111.9	139.3	NA	NA
Physical sciences	1,268.3	976.4	1,317.3	1,273.6	1,577.4	1,567.6	1,548.6	1,755.0	1,835.6	1,667.0	1,667.1
Astronomy	25.2	39.4	86.3	109.0	148.2	175.8	155.4	106.5	105.5	NA	NA
Chemistry	301.5	260.3	459.8	288.1	432.9	389.3	415.0	433.5	405.7	NA	NA
Physics	552.0	528.1	641.0	699.5	759.6	679.6	694.0	1,045.4	1,091.0	NA	NA
Physical sciences, nec	389.6	148.5	130.3	177.0	236.6	322.9	284.1	169.6	233.4	NA	NA
Psychology	279.0	285.3	808.9	449.0	441.3	560.6	875.6	851.6	802.4	804.4	809.7
Biological aspects	14.3	5.8	2.5	3.2	2.8	12.7	5.0	2.0	2.3	NA	NA
Social aspects	84.6	56.7	41.7	54.3	47.7	46.5	46.6	42.3	36.0	NA	NA
Psychological sciences, nec	180.1	222.8	764.7	391.5	390.8	501.5	824.0	807.3	764.1	NA	NA
Social sciences	581.3	608.3	742.4	730.2	621.3	673.0	670.3	705.8	742.9	747.7	749.0
Anthropology	4.7	4.9	1.9	1.5	1.2	1.8	2.1	2.8	1.0	NA	NA
Economics	188.9	171.2	197.7	191.5	182.1	186.2	156.7	164.6	156.3	NA	NA
Political science	15.6	15.4	17.5	13.6	12.7	12.5	12.0	22.2	33.6	NA	NA
Sociology	77.4	74.7	78.8	77.6	76.6	76.0	71.5	52.2	124.9	NA	NA
Social sciences, nec	294.8	342.1	446.5	446.0	348.7	396.5	428.0	463.9	427.1	NA	NA
Other sciences, nec	510.9	639.6	636.6	554.1	618.8	626.6	880.5	861.4	1,074.9	1,290.7	1,228.8
Engineering	4,301.0	4,623.7	4,582.2	6,285.5	6,410.0	6,492.0	6,594.7	6,252.5	6,314.2	6,745.6	6,547.2
Aeronautical engineering	1,311.2	1,278.0	1,141.1	2,060.3	1,827.0	1,476.5	1,336.6	958.6	986.5	NA	NA
Astronautical engineering	563.2	554.4	426.3	718.9	692.6	643.0	597.8	421.2	418.6	NA	NA
Chemical engineering	137.9	148.0	143.9	138.9	139.2	256.4	250.2	217.0	227.0	NA	NA
Civil engineering	208.3	259.7	179.5	240.5	256.1	288.5	274.7	217.1	285.2	NA	NA
Electrical engineering	425.4	513.1	567.7	642.8	595.6	723.7	691.3	820.9	830.3	NA	NA

TABLE 127. Federal obligations for applied research, by detailed field of science and engineering: FY 1998–2008

(Dollars in millions)

Field	1998	1999	2000	2001	2002	2003	2004	2005	2006	Preliminary	
										2007	2008
Mechanical engineering	142.9	140.8	195.9	190.4	176.7	202.2	212.3	247.0	227.7	NA	NA
Metallurgy and materials engineering	310.9	306.9	400.3	489.7	492.8	502.7	445.2	518.2	438.6	NA	NA
Engineering, nec	1,201.3	1,422.9	1,527.4	1,803.9	2,229.9	2,399.1	2,786.6	2,852.5	2,900.2	NA	NA

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

nec = not elsewhere classified.

NOTES: Because of rounding, detail may not add to total. In FY 2000, National Aeronautics and Space Administration reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 128. Federal obligations for research and development for selected agencies, by state and other locations: FY 1987–97

(Dollars in millions)

State/location	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All locations	54,067.4	55,471.0	59,485.0	62,105.2	59,865.4	64,089.7	65,743.8	65,820.1	66,700.1	66,292.4	68,510.2
Alabama	1,346.4	1,363.7	1,646.7	1,805.4	1,863.2	2,151.7	2,149.4	1,819.2	1,931.3	2,178.8	2,213.7
Alaska	48.8	50.5	71.3	90.7	102.7	93.0	92.7	157.3	96.9	93.3	99.9
Arizona	414.9	369.4	501.2	591.7	516.8	638.2	535.3	800.2	902.3	706.7	732.1
Arkansas	52.3	56.4	57.0	85.7	85.9	68.8	79.2	88.9	97.7	148.2	95.3
California	13,672.2	14,895.9	15,919.4	16,249.3	14,488.3	15,999.1	14,883.7	11,250.6	12,600.2	12,658.1	13,730.9
Colorado	1,516.3	1,408.4	1,618.1	1,888.3	2,694.2	1,479.2	1,343.4	1,356.4	1,049.2	1,277.6	1,340.2
Connecticut	672.2	619.5	596.7	509.8	672.7	578.3	522.2	733.5	900.7	798.9	846.5
Delaware	32.3	36.0	31.9	28.3	41.8	43.1	56.2	50.4	57.7	64.9	49.0
District of Columbia	2,209.2	2,925.3	1,914.9	1,593.1	1,943.7	2,185.2	2,488.8	2,483.6	2,755.4	2,574.1	2,232.3
Florida	2,297.3	2,133.4	2,269.8	2,343.4	2,181.1	2,832.3	2,775.3	2,906.7	2,391.8	2,957.9	3,326.4
Georgia	352.1	350.4	392.5	364.1	466.5	2,512.6	3,035.3	5,546.4	4,366.0	4,137.8	3,919.9
Hawaii	63.9	82.2	97.4	100.0	112.6	150.7	113.0	140.3	139.3	147.6	150.7
Idaho	232.7	250.1	195.9	326.1	279.1	299.5	303.7	227.8	211.0	244.6	205.7
Illinois	827.3	850.7	909.1	957.2	959.4	921.9	963.8	1,088.6	1,107.4	1,094.3	1,140.2
Indiana	339.4	312.1	392.5	363.6	378.7	367.0	513.6	403.6	426.3	439.8	410.4
Iowa	162.4	197.1	190.9	186.7	209.8	194.7	215.8	223.8	212.1	213.4	228.2
Kansas	94.2	126.7	128.8	116.4	83.6	91.2	87.9	84.8	120.4	212.0	255.5
Kentucky	61.9	68.5	73.0	96.5	122.4	71.7	86.7	90.1	73.1	78.6	91.3
Louisiana	107.4	101.3	179.6	121.2	163.6	169.6	152.6	210.5	170.1	228.7	211.0
Maine	178.6	39.8	67.7	39.7	57.1	60.6	65.2	82.1	53.1	56.7	68.7
Maryland	4,036.3	4,355.3	4,849.0	5,332.1	5,570.7	5,779.7	7,238.5	6,659.5	7,343.7	6,730.7	7,328.8
Massachusetts	3,910.8	2,702.0	2,882.5	2,982.8	3,146.4	3,227.9	3,551.7	3,201.8	3,337.8	3,192.1	3,437.5
Michigan	463.3	417.5	686.2	810.8	772.6	876.3	878.0	771.0	683.2	707.9	735.1
Minnesota	506.6	576.8	597.3	529.8	455.7	456.4	445.5	475.1	570.2	679.5	609.4
Mississippi	184.4	185.1	198.7	471.7	230.6	255.7	259.8	255.9	209.7	250.6	289.8
Missouri	614.7	637.6	1,241.9	1,064.3	587.9	733.5	726.3	2,272.6	1,606.2	1,267.8	1,130.1
Montana	30.1	35.5	36.2	30.9	45.8	71.5	69.1	57.0	63.8	63.0	79.3
Nebraska	48.9	52.1	51.2	76.4	76.1	71.1	78.5	86.5	84.7	88.5	83.0
Nevada	462.0	443.3	427.5	484.7	496.0	465.8	406.2	347.7	368.9	253.2	295.0
New Hampshire	83.6	60.8	98.0	145.1	196.3	156.1	237.6	218.9	213.2	268.5	278.7
New Jersey	1,114.9	1,209.3	1,320.4	1,601.6	1,698.2	1,646.8	1,422.8	1,385.7	1,297.7	1,272.6	1,318.8
New Mexico	1,998.2	2,296.1	2,220.4	2,311.3	2,018.7	2,211.3	2,309.6	1,894.1	1,959.9	1,955.0	1,933.1
New York	2,941.8	2,688.7	2,904.1	2,960.8	3,086.3	3,058.7	2,538.0	2,678.7	2,585.9	2,504.9	2,471.0
North Carolina	583.8	625.0	562.8	618.6	673.8	700.7	719.1	734.3	831.6	821.5	900.3
North Dakota	29.4	32.5	33.3	53.1	43.7	54.2	50.3	49.6	47.4	46.2	53.0
Ohio	1,862.9	1,865.2	1,938.8	2,088.5	1,729.9	1,863.4	1,921.7	1,736.4	1,810.0	1,681.7	1,879.8
Oklahoma	99.4	103.7	117.6	162.6	131.5	126.1	117.9	142.1	158.7	138.3	160.4
Oregon	133.9	170.3	168.4	175.6	216.5	226.5	229.4	279.2	283.4	308.2	319.6
Pennsylvania	1,681.9	1,731.6	1,961.9	2,074.6	2,125.6	1,794.4	2,566.5	1,983.4	2,394.2	1,921.2	1,893.7
Rhode Island	365.4	335.6	314.1	391.1	433.8	386.3	495.6	433.8	514.6	583.2	403.8
South Carolina	123.7	148.7	222.6	230.9	250.4	172.1	173.2	198.5	173.2	186.7	166.6



TABLE 128. Federal obligations for research and development for selected agencies, by state and other locations: FY 1987–97

(Dollars in millions)

State/location	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
South Dakota	12.8	13.1	15.0	15.7	22.5	23.9	26.9	26.5	26.5	35.0	42.0
Tennessee	732.0	567.2	576.0	825.0	732.2	666.0	674.4	671.3	582.5	558.6	566.2
Texas	2,261.3	2,514.9	3,189.2	3,496.8	2,321.4	2,873.0	2,546.2	3,654.3	4,068.9	3,493.5	3,640.2
Utah	427.3	462.0	517.8	437.7	429.1	314.0	298.8	324.9	368.8	351.7	319.9
Vermont	39.6	55.9	60.1	42.5	56.1	51.3	62.1	48.5	53.0	47.1	49.9
Virginia	2,292.5	2,729.1	2,778.0	2,733.5	2,909.0	3,231.3	3,402.6	3,726.9	3,392.2	4,576.3	4,849.8
Washington	1,878.8	1,765.6	1,766.2	1,567.0	1,241.1	900.5	878.1	963.8	1,131.6	1,152.9	1,226.2
West Virginia	115.8	113.4	104.0	116.6	177.9	166.4	206.2	212.9	287.9	254.4	193.1
Wisconsin	204.8	223.2	263.5	271.7	294.5	307.7	350.8	358.3	338.5	331.4	332.2
Wyoming	23.5	29.0	38.5	57.4	29.8	41.4	48.2	36.8	35.4	37.5	28.4
Outlying areas	42.9	33.0	45.7	54.9	221.0	246.9	332.7	166.3	166.5	172.6	93.3
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	50.5	46.7	51.6	58.9
Other areas	NA	NA	NA	NA	NA	NA	NA	115.8	119.8	121.0	34.3
Offices abroad	78.2	54.2	43.4	31.7	21.0	24.4	17.8	23.1	48.0	48.5	54.6

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Data for each year are obligations of these 11 agencies. These obligations represented 97% or more of the total federal R&D obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 129. Federal obligations for research and development for selected agencies, by state and other locations: FY 1998–2006

(Dollars in millions)

State/location	1998	1999	2000	2001	2002	2003	2004	2005	2006
All locations	70,710.4	73,798.2	71,261.5	78,078.4	83,978.3	91,525.0	99,062.9	106,986.4	107,745.4
Alabama	2,013.3	1,807.0	1,614.9	2,333.4	2,704.8	2,932.9	2,806.2	2,800.2	2,161.7
Alaska	107.2	115.0	146.8	212.2	273.8	246.0	261.0	233.5	209.0
Arizona	993.5	1,116.9	1,121.7	1,781.5	2,057.3	1,856.8	2,216.3	2,674.5	2,056.3
Arkansas	97.4	106.4	116.3	183.9	141.3	139.7	141.3	154.3	156.2
California	12,222.6	15,600.1	14,083.0	12,651.1	15,686.1	17,410.3	18,041.1	19,379.6	21,156.5
Colorado	1,336.3	1,438.7	1,369.7	1,340.6	1,609.0	1,612.0	1,806.2	2,036.6	2,029.6
Connecticut	699.4	655.2	806.2	1,377.4	1,916.9	2,068.0	2,088.3	2,153.5	1,592.0
Delaware	45.2	52.3	69.9	70.2	78.8	91.4	85.4	94.2	108.7
District of Columbia	2,229.8	2,451.6	2,369.5	2,605.9	2,849.5	2,916.1	3,054.8	3,993.4	4,091.9
Florida	2,754.9	2,284.4	2,216.2	2,648.4	2,300.6	2,522.1	2,740.0	2,197.9	2,319.1
Georgia	3,443.9	2,023.2	2,632.2	3,395.9	2,019.2	1,514.3	1,308.4	1,707.5	1,251.4
Hawaii	164.5	198.8	209.7	293.1	375.2	349.6	392.6	384.4	340.1
Idaho	212.7	200.7	216.9	209.3	230.9	216.1	259.8	273.1	297.1
Illinois	1,160.1	1,316.1	1,404.6	1,693.9	1,693.9	1,900.3	1,836.5	1,982.6	1,975.6
Indiana	377.7	413.9	506.3	534.7	525.7	561.2	541.1	553.6	559.9
Iowa	235.8	264.1	267.0	324.3	404.5	465.2	477.9	447.7	497.2
Kansas	154.8	191.6	223.5	306.7	290.5	190.0	210.0	198.0	212.2
Kentucky	216.7	146.8	203.9	271.7	321.3	232.1	237.3	262.8	239.1
Louisiana	223.6	219.2	249.0	275.8	432.0	441.9	419.4	402.1	321.1
Maine	105.7	150.6	249.8	450.7	254.5	144.9	188.4	239.8	226.5
Maryland	7,966.8	8,094.4	8,684.8	9,290.4	7,192.2	7,804.4	12,163.0	12,211.4	12,499.5
Massachusetts	3,113.8	3,129.4	4,145.5	4,318.1	4,658.6	5,156.5	5,324.8	5,701.8	6,104.6
Michigan	755.9	839.8	975.1	1,175.7	1,244.2	1,673.2	1,073.0	1,105.2	1,680.9
Minnesota	806.1	885.1	781.1	900.9	1,150.8	861.3	826.4	758.3	1,237.3
Mississippi	280.4	351.6	394.6	402.1	622.7	1,173.9	1,593.7	424.1	544.0
Missouri	933.7	928.7	890.6	909.4	1,202.7	1,269.9	2,979.3	4,040.3	1,225.3
Montana	81.1	95.4	95.0	136.8	112.9	129.5	187.2	176.8	149.9
Nebraska	85.0	94.1	98.5	125.2	144.7	146.3	155.3	145.1	160.0
Nevada	294.7	279.1	263.9	295.4	336.0	409.3	510.2	382.5	422.4
New Hampshire	269.5	291.7	356.9	418.6	296.6	363.1	354.0	364.3	371.8
New Jersey	1,459.6	2,661.2	1,937.8	1,591.9	2,021.5	1,785.8	1,968.8	2,344.1	2,110.7
New Mexico	1,892.1	2,068.3	2,130.5	2,580.7	2,746.1	2,850.1	3,069.2	3,279.3	3,100.1
New York	2,560.5	2,689.0	2,927.5	3,336.2	3,746.8	3,972.9	4,034.1	4,955.7	5,225.2
North Carolina	922.7	1,007.5	1,062.5	1,400.9	1,390.4	1,610.9	1,677.0	1,791.5	1,765.9
North Dakota	52.1	59.9	64.1	77.9	102.1	101.8	103.0	105.1	112.1
Ohio	5,563.0	3,687.9	1,799.1	2,327.0	2,103.4	2,396.0	2,505.5	2,369.8	2,420.1
Oklahoma	176.2	165.8	185.1	225.8	271.6	274.3	304.0	253.6	262.3
Oregon	348.6	408.1	468.2	522.6	502.3	480.2	448.8	557.5	505.3
Pennsylvania	1,886.5	1,907.1	2,357.6	2,601.6	3,162.0	3,787.9	3,282.4	3,234.5	3,227.5
Rhode Island	385.8	391.7	418.0	437.5	501.3	523.3	495.3	572.3	615.9
South Carolina	188.7	215.9	249.0	314.3	371.0	411.7	373.3	408.4	370.6
South Dakota	46.0	39.0	38.8	54.9	58.7	54.8	70.0	70.0	75.9
Tennessee	621.2	684.7	734.4	844.7	961.1	1,039.3	1,063.4	1,292.9	1,455.6
Texas	4,112.5	3,853.3	2,671.8	2,925.4	3,374.4	4,757.0	5,026.0	4,988.5	5,263.8
Utah	393.4	305.0	286.0	395.1	408.7	650.2	682.1	813.9	737.9
Vermont	57.7	61.7	72.0	112.7	136.4	181.9	211.7	170.7	105.5
Virginia	4,671.2	5,750.4	4,848.0	4,809.9	5,756.3	6,212.9	6,191.5	8,214.4	8,882.4
Washington	1,246.9	1,306.8	1,329.5	1,544.6	1,998.9	2,292.1	2,070.9	2,387.7	4,039.3
West Virginia	243.3	227.0	235.7	352.8	254.2	367.4	288.7	772.5	301.4
Wisconsin	333.0	377.8	420.8	487.9	594.8	657.2	644.6	648.2	635.6
Wyoming	33.5	35.2	35.1	37.0	39.6	41.1	45.7	33.5	36.2
Outlying areas	115.7	133.1	117.9	133.3	284.7	216.9	128.8	146.5	161.2

TABLE 129. Federal obligations for research and development for selected agencies, by state and other locations: FY 1998–2006

(Dollars in millions)

State/location	1998	1999	2000	2001	2002	2003	2004	2005	2006
Puerto Rico	65.7	72.7	81.0	90.8	135.3	112.2	100.9	101.4	98.8
Other areas	50.0	60.4	36.9	42.5	149.4	104.7	27.9	45.1	62.4
Offices abroad	18.2	19.8	109.1	30.3	64.4	60.9	99.4	96.5	138.0

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration (NASA); and National Science Foundation. Data for each year are obligations of these 11 agencies. These obligations represented 97% or more of the total federal R&D obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. In FY 2000, NASA reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant; and National Institutes of Health reclassified all its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 130. Federal obligations for R&amp;D plant for selected agencies, by state and other locations: FY 1987–97

(Dollars in millions)

State/location	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
All locations	1,793.8	2,025.1	2,144.3	2,230.1	2,807.0	2,962.9	3,054.5	2,196.2	2,210.8	1,736.6	1,891.1
Alabama	42.8	51.8	47.2	109.7	165.0	346.1	368.2	94.1	44.1	48.9	43.4
Alaska	NA	6.4	NA	11.1	0.2	0.8	1.0	88.0	1.4	0.2	3.0
Arizona	19.6	21.8	18.1	2.5	16.4	7.9	16.9	20.8	42.7	3.0	1.9
Arkansas	0.5	0.4	3.1	2.2	5.3	4.4	3.3	3.9	3.9	12.5	14.1
California	290.7	429.0	446.7	459.0	377.8	356.1	469.6	209.5	414.0	341.2	418.9
Colorado	12.8	53.5	62.5	32.3	50.7	55.6	30.0	36.9	31.2	28.4	52.6
Connecticut	0.4	1.0	1.4	1.8	2.6	2.6	14.4	3.8	5.2	3.6	5.2
Delaware	0.4	1.3	0.2	*	*	0.1	2.1	1.1	1.9	2.0	2.4
District of Columbia	24.1	15.4	17.1	7.4	16.3	17.8	13.3	11.2	3.0	4.6	7.0
Florida	64.6	86.0	100.0	68.3	132.1	143.1	73.5	101.7	40.6	65.3	66.1
Georgia	23.1	2.7	10.8	3.6	6.0	6.4	3.5	5.3	12.4	4.6	5.2
Hawaii	0.6	6.9	0.4	1.4	9.2	6.5	19.3	14.3	0.5	1.7	3.0
Idaho	17.8	39.6	12.0	30.3	46.0	39.6	27.4	12.5	8.9	19.2	26.2
Illinois	94.3	76.7	94.9	116.3	319.7	183.9	201.6	208.5	190.0	147.3	134.3
Indiana	5.8	1.9	1.5	1.3	5.0	8.4	22.6	4.1	4.8	15.2	7.9
Iowa	22.7	3.8	6.2	10.4	26.1	5.2	7.9	10.1	15.5	10.1	8.9
Kansas	49.8	0.1	1.6	3.1	5.2	2.5	10.1	10.6	1.2	1.5	1.4
Kentucky	1.7	0.1	0.5	0.7	1.6	NA	NA	3.9	4.7	2.4	0.4
Louisiana	2.5	31.9	47.2	33.6	26.1	26.2	29.5	21.0	21.5	26.5	18.6
Maine	*	0.3	0.1	0.7	0.7	1.5	1.0	1.9	0.7	0.2	0.3
Maryland	109.8	79.2	120.1	178.9	235.9	229.7	264.6	196.2	390.3	240.2	299.6
Massachusetts	36.3	94.2	54.7	78.2	32.5	20.2	22.3	15.8	23.1	14.1	12.1
Michigan	1.4	4.4	4.6	6.6	3.0	9.1	21.7	4.5	3.7	6.3	5.0
Minnesota	0.4	0.7	1.8	1.1	2.1	2.5	3.0	17.2	5.1	6.3	2.6
Mississippi	39.1	19.1	41.1	47.4	50.8	41.6	42.2	31.9	36.5	32.8	38.8
Missouri	4.8	2.7	3.7	1.9	6.5	1.7	1.5	4.7	4.6	4.4	5.7
Montana	0.2	0.2	0.2	0.5	1.6	2.7	1.6	3.6	4.9	5.8	9.6
Nebraska	1.4	4.1	2.8	4.1	6.0	5.7	1.0	1.0	2.3	1.0	0.8
Nevada	87.0	103.3	69.3	61.1	57.7	59.7	50.2	26.9	38.5	16.1	1.0
New Hampshire	0.2	*	0.2	0.3	0.3	4.0	0.8	0.3	NA	0.6	2.3
New Jersey	39.8	52.6	46.8	51.3	30.0	39.0	53.2	45.3	34.9	26.7	29.9
New Mexico	256.6	231.4	239.6	197.9	175.5	164.7	181.4	152.6	133.8	77.5	124.8
New York	113.4	115.3	101.6	100.6	107.2	194.5	177.7	186.1	159.1	164.6	152.2
North Carolina	3.4	0.9	4.3	3.4	7.4	6.8	36.6	40.0	25.7	20.5	27.4
North Dakota	0.8	9.2	6.0	7.4	9.0	7.4	5.5	5.8	4.9	1.5	3.7
Ohio	58.1	68.5	69.8	56.3	115.4	122.2	64.1	128.1	147.5	67.5	49.7
Oklahoma	0.9	10.7	4.5	1.5	3.3	4.1	1.0	1.9	2.8	3.2	6.7
Oregon	24.7	8.6	30.1	12.3	3.3	1.8	13.8	6.5	5.2	8.1	5.9
Pennsylvania	41.4	56.3	79.0	36.0	89.5	52.0	95.7	72.2	35.4	51.3	40.8
Rhode Island	6.4	2.0	1.6	0.8	14.3	1.9	0.6	0.6	7.3	3.9	4.6
South Carolina	19.6	8.2	8.9	3.7	31.9	4.1	4.9	14.7	2.7	2.2	10.3

TABLE 130. Federal obligations for R&amp;D plant for selected agencies, by state and other locations: FY 1987–97

(Dollars in millions)

State/location	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
South Dakota	0.1	0.6	0.3	1.7	2.0	1.5	1.0	5.6	4.3	3.0	0.4
Tennessee	29.3	57.2	58.8	62.4	63.2	48.1	29.5	77.4	37.1	22.9	38.7
Texas	75.1	40.7	97.6	210.6	218.0	465.7	429.1	56.6	84.2	56.5	62.8
Utah	14.2	6.8	12.1	2.5	3.5	1.5	3.5	6.7	4.6	2.6	2.8
Vermont	1.0	8.0	1.4	0.4	0.8	NA	0.1	0.6	NA	2.2	0.5
Virginia	89.4	105.5	127.4	128.7	175.5	172.4	131.0	126.6	81.1	69.7	56.6
Washington	24.8	31.2	35.5	44.2	34.5	54.3	71.6	71.5	64.3	71.8	64.8
West Virginia	16.5	23.2	26.7	12.4	89.4	9.7	8.4	4.8	5.4	2.6	2.8
Wisconsin	4.0	2.0	4.0	4.4	13.0	10.2	8.0	24.6	9.6	3.0	2.0
Wyoming	0.3	0.2	0.1	0.2	0.7	1.8	0.6	1.8	1.5	0.5	0.6
Outlying areas	18.2	46.5	1.5	14.9	11.0	6.9	13.1	0.5	1.4	8.3	4.3
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	0.4	0.3	0.3	0.4
Other areas	NA	NA	NA	NA	NA	NA	NA	*	1.1	8.1	3.9
Offices abroad	1.0	0.9	16.8	0.3	0.5	0.6	0.6	0.7	1.3	0.5	0.3

\* = amount greater than \$0 but less than \$50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Data for each year are obligations of these 11 agencies. These obligations represented 97% or more of the federal R&D plant obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

TABLE 131. Federal obligations for R&D plant for selected agencies, by state and other locations: FY 1998–2006  
(Dollars in millions)

State/location	1998	1999	2000	2001	2002	2003	2004	2005	2006
All locations	1,809.8	2,042.3	4,489.3	4,026.0	4,289.7	4,239.8	3,979.3	3,749.1	2,093.1
Alabama	38.6	66.6	210.6	202.6	176.1	92.5	37.3	27.1	6.4
Alaska	0.0	0.0	0.3	0.4	281.4	133.9	126.8	15.8	4.8
Arizona	7.5	1.1	4.1	2.7	6.7	38.3	27.7	6.7	3.6
Arkansas	18.5	3.0	3.2	4.7	13.0	6.0	7.7	0.7	1.7
California	426.4	467.7	503.0	570.3	523.9	519.3	987.7	972.4	427.7
Colorado	63.3	43.2	34.6	54.5	118.3	97.1	82.9	89.3	97.7
Connecticut	2.6	2.3	91.0	55.6	51.6	48.7	46.8	87.8	4.3
Delaware	0.8	1.1	0.3	0.1	1.0	0.9	0.6	0.4	*
District of Columbia	13.2	53.7	30.0	26.5	52.8	18.7	118.1	33.3	105.8
Florida	66.4	56.2	238.3	180.0	196.1	173.0	120.9	107.0	1.6
Georgia	3.8	8.5	9.2	20.1	18.0	7.5	16.4	98.7	128.7
Hawaii	1.5	9.3	1.8	2.8	6.4	1.9	7.0	43.8	5.6
Idaho	11.5	8.2	27.2	18.4	12.7	7.0	22.6	23.1	7.0
Illinois	152.6	151.5	143.1	167.2	100.7	122.1	122.9	104.7	84.6
Indiana	3.1	6.7	12.2	18.0	11.9	12.3	7.7	4.2	2.7
Iowa	7.2	6.2	8.1	16.6	16.3	30.0	107.0	32.0	62.3
Kansas	0.6	4.0	3.0	3.0	5.6	1.9	1.3	10.2	0.3
Kentucky	NA	0.1	2.6	0.8	0.9	3.1	7.4	25.2	7.2
Louisiana	30.4	28.8	11.7	16.5	35.9	56.8	17.2	15.4	36.7
Maine	1.6	1.5	1.5	7.5	8.1	0.9	4.8	3.8	3.8
Maryland	304.2	302.2	352.4	107.5	210.3	106.0	472.7	515.1	250.5
Massachusetts	10.7	20.3	41.6	58.9	24.2	233.4	21.6	90.5	49.1
Michigan	3.0	5.9	5.9	17.6	5.1	17.0	8.0	3.3	3.5
Minnesota	3.5	7.2	3.7	7.5	8.2	4.2	5.7	4.3	0.8
Mississippi	47.6	26.8	20.7	31.0	43.4	24.4	11.0	11.1	20.5
Missouri	4.0	1.8	3.1	11.4	5.2	21.2	4.7	11.3	6.3
Montana	2.0	1.4	2.4	7.5	8.0	6.5	3.4	6.3	6.5
Nebraska	0.9	0.9	3.4	12.2	4.8	0.8	1.5	*	0.7
Nevada	2.9	14.7	6.2	14.6	16.5	12.4	7.6	7.2	40.9
New Hampshire	0.3	0.5	4.1	2.6	1.3	2.8	6.6	3.4	4.0
New Jersey	32.1	30.8	46.4	39.2	29.2	72.5	50.5	51.0	56.9
New Mexico	113.9	99.8	122.2	159.7	127.8	187.9	269.4	183.3	110.8
New York	122.1	89.0	113.6	138.2	129.2	89.2	71.3	97.1	100.8
North Carolina	30.4	38.0	7.7	14.3	8.6	26.2	21.0	8.5	4.1
North Dakota	3.2	2.3	1.1	1.5	1.7	0.2	NA	4.4	0.3
Ohio	91.2	108.1	68.7	84.4	56.3	26.4	19.5	26.1	17.0
Oklahoma	2.6	7.8	3.5	2.7	4.3	14.4	17.6	4.2	0.9
Oregon	3.2	8.9	4.0	16.2	7.3	8.3	7.1	4.0	2.8
Pennsylvania	17.9	28.0	63.3	39.9	34.8	79.6	26.8	24.7	17.4
Rhode Island	9.7	15.4	2.9	1.3	18.5	0.2	12.0	2.4	1.0
South Carolina	1.0	18.5	18.2	6.3	6.7	10.0	8.6	20.7	3.5
South Dakota	0.6	0.2	2.2	0.4	3.1	1.1	10.8	2.3	0.5
Tennessee	28.8	135.4	128.9	288.3	333.3	309.6	199.7	198.9	111.8
Texas	35.8	44.1	2,014.2	1,421.5	1,399.2	1,370.4	568.7	486.8	42.1
Utah	1.5	1.2	1.8	3.0	8.4	8.3	1.1	4.3	0.5
Vermont	0.1	0.5	2.1	0.3	0.1	NA	0.6	0.7	0.3
Virginia	53.7	61.3	60.6	114.4	99.9	147.3	179.3	170.4	129.0
Washington	12.1	14.9	12.1	20.5	18.6	30.6	32.4	34.3	30.0
West Virginia	12.6	25.0	18.4	18.6	8.7	6.0	11.3	10.2	20.7
Wisconsin	1.1	3.2	10.5	11.5	23.9	47.7	56.2	58.2	65.1
Wyoming	0.7	0.3	0.9	0.3	0.6	0.2	0.3	0.8	0.4
Outlying areas	3.1	7.5	5.6	3.7	4.5	1.9	1.6	1.1	0.4

TABLE 131. Federal obligations for R&amp;D plant for selected agencies, by state and other locations: FY 1998–2006

(Dollars in millions)

State/location	1998	1999	2000	2001	2002	2003	2004	2005	2006
Puerto Rico	2.2	1.3	3.2	1.5	4.5	1.9	1.6	1.1	0.4
Other areas	0.9	6.2	2.4	2.2	NA	NA	NA	NA	NA
Offices abroad	3.9	0.5	0.7	0.6	0.5	1.0	NA	0.8	1.7

\* = amount greater than \$0 but less than \$50,000. NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. These obligations represented 97% or more of the federal R&D plant obligations in that year. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of Department of Defense development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D.

In FY 2000, National Aeronautics and Space Administration (NASA) reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. In FY 2000, National Institutes of Health reclassified all its development activities as research.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: FY 2006, 2007, and 2008.

## **Appendix A. Technical Notes**

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### **Scope and Method**

During the period February 2007 through February 2008, a total of 28 federal agencies (15 federal departments and 13 independent agencies) submitted data in response to the National Science Foundation's (NSF) annual Survey of Federal Funds for Research and Development (Federal Funds Survey), which was distributed in February 2007. Because in some cases multiple subdivisions of a federal department were requested to complete the survey, there were 91 individual respondents (5 federal departments, 13 independent agencies, and 73 department subdivisions). The agencies reported their data as obligations and outlays incurred or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for R&D activities.

Only those agencies that had obligations in the variables presented in a particular table appear in that table. Obligations are amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required. Outlays are amounts for checks issued and cash payments made during a given period, regardless of when funds were appropriated.

A complete list of definitions appears at the end of appendix A.

Appendix B provides a complete list of the federal agencies that have been included in the Federal Funds Survey. Additional notes associated with these agencies are provided in appendix C.

### **Survey Instrument**

There were no significant changes to the content of the FY 2006–08 survey from the previous survey cycle.

### **Limitations of the Data**

Funds for R&D were reported on a 3-year basis comparable with the 2008 federal budget, upon which the data were based. The amounts reported for each year are the obligations or outlays incurred in that year, regardless of when funds were authorized or received by an agency and regardless of whether the funds were identified in the agency's budget specifically for research, development, R&D plant, or some combination of the three. The respondents reconciled the data reported to the Federal Funds Survey with the amounts for R&D they reported under Max Schedule C to the Office of Management and Budget for the President's 2008 budget.

Some agencies are not able to report the full costs of R&D. For example, the headquarters costs of planning and administering R&D programs of DOD (estimated at a fraction of 1% of the agency's R&D total) are excluded, because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also underreported to some extent because of the difficulty encountered by some agencies, particularly DOD and NASA, in identifying and reporting these data. DOD respondents report obligations for the R&D plant funded under the agency's construction appropriation, but they are able to identify only a small portion of the R&D plant support that is within R&D contracts funded from DOD's appropriation for research, development, testing, and evaluation. Similarly, NASA respondents cannot separately identify the portions of industrial R&D contracts that apply to R&D plant; R&D plant data are subsumed in the R&D data covering industrial performance. NASA R&D plant data for other performing sectors are reported separately.



## Revisions to the Data

In 2009 the Department of the Air Force (USAF) notified NSF that it has been underreporting its major systems development totals since FY 2000. USAF is in the process of providing revised totals, which NSF will publish after review and validation. The revised figures will affect USAF, Department of Defense, and all agencies' totals for development and for R&D. Totals for other agencies, for research, and for R&D plant will not be affected.

After submission, agency verification, and processing of the totals, it was determined that the Department of the Army misreported approximately \$3.2 billion of major systems development obligations for FY 2007 to industry FFRDCs; these obligations should have been reported to industry. Although the aggregate estimated totals reported were accurate, the receiving sector was not. Consequently, preliminary FY 2007 industry FFRDC totals (major systems development, development and R&D) reported here are overstated and industry totals are understated. Actual FY 2007 data reported in the forthcoming Volume 57 (FY 2007–09) of the Federal Funds series of detailed statistical tables correct this error.

When completing the current year's survey, agency respondents revise their estimates for the latest 2 years of the previous report, in this case FY 2006 and 2007. Such revision is part of the budgetary cycle. From time to time, survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When such revisions occur, NSF requests that the agencies provide revised prior-year data to maintain consistency and comparability with the most recent R&D concepts.

## Historical Changes

The scope of the survey has changed over time, and the survey instrument has been revised accordingly. Agency reporting methods have also changed over time, and survey data are not directly comparable for all years. The most recent changes are summarized below.

### Scope

Before the Volume 55 (FY 2005–07) survey cycle, NSF updated the list of foreign performers in the Federal Funds Survey to match the list of countries and territories in the Department of State's Bureau of Intelligence and Research list of Independent States in the World and the list of Dependencies and Areas of Special Sovereignty. Area/country lists in Volume 55 data tables and later may differ from those in previous reports.

On 25 November 2002, President Bush signed the Homeland Security Act of 2002, establishing the Department of Homeland Security.

During the Volume 44 (FY 1994–96) survey cycle, the Director for Defense Research and Engineering (DDR&E) at DOD requested that NSF further clarify the true character of DOD's R&D program, particularly as it compares with other federal agencies, by adding more detail to development obligations reported by DOD respondents. Specifically, DOD requested that NSF allow DOD agencies to report development obligations in two separate categories, advanced technology development and major systems development.

The reasoning behind the DDR&E request for the additional development categories is best explained by the following excerpt from a letter written by Robert V. Tuohy, Chief, Program Analysis and Integration at DDR&E, to John E. Jankowski, Program Director, Research and Development Statistics Program, Division of Science Resources Statistics (SRS), NSF:

The DOD's R&D program is divided into two major pieces, Science and Technology (S&T) and Major Systems Development. The other federal agencies' entire R&D programs are equivalent in nature to DOD's S&T program, with the exception of the Department of Energy and possibly NASA. Comparing those other agency programs to DOD's program, including the development of weapons systems such as F-22 Fighter and the New Attack Submarine, is misleading.

At several annual issues workshops held during FY 1992–96, NSF learned from survey respondents that reliable data for certain survey items were difficult to obtain and report. As a result, NSF began to consider removing certain items from the survey instrument. The Volume 42 Detailed Statistical Tables publication was distributed with a flier notifying data users that NSF was considering eliminating several items from future volumes of the document. Data users were asked to review the list of affected tables shown on the flier and comment on the proposed eliminations to NSF.

Before publication of Volume 43 (FY 1993–95) of the detailed statistical tables, NSF removed from the document 54 tables that provided data on two of the items slated for elimination: the special foreign currency program and detailed field of science and engineering for estimates for 1994 and 1995. NSF continued to collect data from federal agencies for these two items through Volume 45, but eliminated the lines on the survey instrument for these items beginning with the Volume 46 (FY 1996–98) survey cycle. A special flier was included in the Volume 46 packet mailing that listed the data items that were no longer required.

NSF also removed two tables depicting data on foreign performers by region, country, and agency before publication of Volume 43 of the detailed statistical tables. These tables were reinstated with Volume 46.

DOD has reported research obligations and development obligations separately since the Volume 40 (FY 1990–92) survey cycle. Tables reporting obligations for research, by state and performer, and obligations for development, by state and performer, were specifically created for DOD. The additional detail provided by DOD highlights the following circumstances that are specific to DOD:

(1) DOD funds the preponderance of federal development.

(2) DOD development funded at institutions of higher education is typically performed at university-affiliated nonacademic laboratories. These are separate from the universities' academic departments, where university research is typically performed.

### **Reporting**

In FY 2006 NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant.

The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate.

For the survey cycle that collected R&D data for FY 2003–05, the Department of Homeland Security (DHS) was unable to determine adequate estimates for its R&D by the categories shown in this report. Therefore, NSF was not able to include DHS data in any of the tables for that survey cycle. However, DHS was able to provide some overall obligations for R&D for the Transportation Security Administration, U.S. Coast Guard, and U.S. Secret Service, and preliminary appropriations for the Science and Technology Directorate (see below).

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DHS component	Dollars in millions		
	FY 2003 actual	FY 2004 preliminary	FY 2005 preliminary
Transportation Security Administration	49.2	137.9	175.3
U.S. Coast Guard	15.0	23.7	NA
U.S. Secret Service	1.0	1.1	1.1
Science and Technology Directorate	NA	912.8	1,039.3

NA = not available.

With the FY 2004–06 survey cycle, NASA implemented a full-cost budget approach, which includes all of the direct and indirect costs for procurement, personnel, travel, and other infrastructure-related expenses relative to a particular program and project. NASA's data for FY 2004 and later years may not be directly comparable to its data for FY 2003 and earlier years.

NIH has revised its financial database, and beginning with FY 2004, NIH records no longer contain information on field of science and engineering. Data for FY 2004 and later years are not directly comparable to data for FY 2003 and earlier years.

In FY 2000 NASA reclassified Space Station as a physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant. Also in FY 2000, the National Institutes of Health (NIH) reclassified as research the activities that it had previously classified as development. For more information on the classification changes at NASA and NIH, refer to the InfoBrief *Classification Revisions Reduce Reported Federal Development Obligations*, NSF 02-309, February 2002, available at <http://www.nsf.gov/statistics/nsf02309/>.

## Definitions

Definitions are essentially unchanged from those used in past surveys.

1. *Agency and subdivision.* An *agency* is an organization of the federal government whose principal executive officer reports to the President. The Library of Congress is also included in the survey, even though its chief officer reports to Congress. *Subdivision* refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.
2. *Obligations and outlays.* *Obligations* represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required. *Outlays* represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated. Obligations and outlays cover all transactions that occurred in FY 2006 and those estimated for FY 2007 and 2008.

Obligations and outlays reported are consistent with figures shown for FY 2006, 2007, and 2008 appearing in the *Budget of the United States Government, Fiscal Year 2008*. The R&D data that agencies submit to the Office of Management and Budget and to the Federal Funds Survey are based on the same definitions and are reconcilable.

The data include all federal funds available to an agency that the agency received or expects to receive from direct appropriations, trust funds, special account receipts, corporate income, or other sources, including funds appropriated to the President.

The amounts shown for each year reflect obligations or outlays for that year regardless of when the funds were originally authorized or received and regardless of whether they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

In reporting its obligations or outlays, each agency includes the amounts transferred to other agencies for support of R&D. The receiving agencies do not report funds transferred to them. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for R&D performed for an agency in foreign countries include all funds available to the agency for this purpose, including funds separately appropriated for special foreign-currency programs.

Funds reported for R&D reflect full-cost coverage, which is the costs of specific R&D and the applicable overhead costs. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

3. *Fiscal year.* The accounting period for the federal government begins 1 October of a given year and ends 30 September of the following year; thus, FY 2006 began on 1 October 2005 and ended 30 September 2006.
4. *Research, development, and R&D plant.* Amounts for R&D and R&D plant include all direct, incidental, or related costs resulting from, or necessary to, performance of R&D and costs of R&D plant as defined below, regardless of whether the R&D is performed by a federal agency (intramurally) or by private individuals and organizations under grant or contract (extramurally). R&D excludes routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

- a. *Research* is defined as systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

*Basic research* is defined as systematic study directed toward fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind.

*Applied research* is defined as systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met.

- b. *Development* is defined as systematic application of knowledge or understanding, directed toward the production of useful materials, devices, and systems or methods, including design, development, and improvement of prototypes and new processes to meet specific requirements.

To better differentiate between the part of the federal R&D budget that supports science and key enabling technologies (including technologies for military and nondefense applications) and the part that primarily supports testing and evaluation (mostly of defense-related systems), NSF collects from the

Department of Defense (DOD) development dollars in two categories: advanced technology development and major systems development.

DOD uses service codes 6.1 through 6.7 to classify data into the survey categories. Within DOD's research categories, basic research is classified as 6.1, and applied research is classified as 6.2. Within DOD's development categories, advanced technology development is classified as 6.3. Major systems development is classified as 6.4 through 6.7 and includes advanced component development prototypes; system development and demonstration; RDT&E management support; and operational system development.

- c. *Demonstration* includes amounts for activities that are part of R&D (i.e., that are intended to prove or to test whether a technology or method does in fact work). Demonstrations intended primarily to make information available about new technologies or methods are excluded.
  - d. *R&D plant* is defined as R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators. Amounts include acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at federal or nonfederal installations. Excluded from the R&D plant category are costs of expendable or movable equipment (e.g., spectrometers, microscopes) and office furniture and equipment. Also excluded are the costs of predesign studies (e.g., those undertaken before commitment to a specific facility). These excluded costs are reported under "total conduct of research and development." Obligations for foreign R&D plant are limited to federal funds for facilities that are located abroad and used in support of foreign R&D.
5. *Fields of science and engineering.* In this survey there are eight broad field categories, each comprising a number of detailed fields. The broad fields are environmental sciences, life sciences, mathematics and computer sciences, physical sciences, psychology, social sciences, sciences not elsewhere classified, and engineering. The term "not elsewhere classified" (nec) is used for multidisciplinary projects within a broad field and for single-discipline projects for which a separate field has not been assigned. The following list presents the broad fields and their associated detailed fields, together with illustrative disciplines of detailed fields.

The illustrative disciplines are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry, for example, might be reported as biological, agricultural, or medical, depending on the focus of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would fall under agricultural. In no case is the research reported under more than one field. No double counting is intended or allowed.

- a. *Environmental sciences* (terrestrial and extraterrestrial) are, with the exception of oceanography, concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect human survival and welfare. Obligations for studies pertaining to life in the sea or other bodies of water are reported as support of oceanography and not biology. Environmental sciences comprises the detailed fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences nec. Examples of disciplines in these detailed fields are as follows:

Atmospheric sciences: aeronomy, extraterrestrial atmospheres, meteorology, solar science, weather modification

Geological sciences: engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic geochemistry, isotopic geochemistry, laboratory geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography and cartography, seismology

Oceanography: biological oceanography, chemical oceanography, marine geophysics, physical oceanography

Environmental sciences nec

- b. *Life sciences* is concerned with the scientific study of living organisms and their systems. It comprises five detailed fields: agricultural sciences, biological sciences (excluding environmental biology), environmental biology, medical sciences, and life sciences nec. Examples of the disciplines in these detailed fields are as follows:

Agricultural sciences: agronomy, animal sciences, food science and technology, fish and wildlife, forestry, horticulture, phytopathology, phytoproduction, plant sciences, soils and soil science, general agriculture, other agriculture nec

Biological sciences (excluding environmental biology): anatomy, biochemistry, biology, biometry and biostatistics, biophysics, botany, cell biology, entomology and parasitology, genetics, microbiology, neuroscience (biological), nutrition, physiology, zoology, other biological sciences nec

Environmental biology: ecosystem sciences, evolutionary biology, limnology, physiological ecology, population and biotic community ecology, population biology, systematics, other environmental biology nec

Medical sciences: dentistry, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, pharmacology, pharmacy, preventive medicine, psychiatry, radiology, surgery, veterinary medicine, other medical sciences nec

Life sciences nec

- c. *Mathematics and computer sciences* employs logical reasoning with the aid of symbols and is concerned with the development of methods of operation using such symbols or with the application of such methods to automated information systems. It comprises the detailed fields of mathematics and computer sciences. Examples of disciplines in these detailed fields are as follows:

Mathematics: algebra, analysis, applied mathematics, foundations and logic, geometry, numerical analysis, statistics, topology

Computer sciences: computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; programming languages; systems analysis

Mathematics and computer sciences nec

- d. *Physical sciences* is concerned with understanding of the material universe and its phenomena. It comprises the detailed fields of astronomy, chemistry, physics,

and physical sciences nec. Examples of disciplines in these detailed fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; x ray, gamma-ray, and neutrino astronomy

Chemistry: inorganic, organic, organometallic, and physical chemistry

Physics: acoustics, atomic and molecular physics, condensed-matter physics, elementary particle physics, nuclear structure, optics, plasma physics

Physical sciences nec

- e. *Psychology* deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology in this survey is divided into three categories: biological aspects, social aspects, and psychological sciences nec. Examples of the disciplines in these categories are as follows:

Biological aspects: animal behavior, clinical psychology, comparative psychology, ethology, and experimental psychology

Social aspects: development and personality; educational, personnel, and vocational psychology and testing; industrial and engineering psychology; social psychology

Psychological sciences nec

- f. *Social sciences* is concerned with an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences comprises the detailed fields of anthropology, economics, political science, sociology, and social sciences nec. Examples of disciplines in these detailed fields are as follows:

Anthropology: applied anthropology, archaeology, cultural anthropology and personality, social anthropology and ethnology

Economics: econometrics and economic statistics; economic systems and development; economic theory; history of economic thought; industrial, labor, and agricultural economics; international economics; macroeconomics; microeconomics; public finance and fiscal policy

Political science: area or regional studies, comparative government, history of political ideas, international relations and law, national political and legal systems, political theory, public administration

Sociology: comparative and historical sociology, complex organizations, culture and social structure, demography, group interactions, social problems and social welfare, sociological theory

Social sciences nec: linguistics, research in education, research in history, research in law (e.g., attempts to assess impact on society of legal systems and practices), socioeconomic geography

- g. *Other sciences nec* is used for multidisciplinary or interdisciplinary projects that cannot be classified within one of the broad fields of science already listed.

- h. *Engineering* is concerned with developing engineering principles or making specific principles usable in engineering practice. Engineering in this survey is divided into eight detailed fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials engineering, and engineering nec. Examples of disciplines in these detailed fields are as follows:

Aeronautical engineering: aerodynamics

Astronautical engineering: aerospace, space technology

Chemical engineering: petroleum, petroleum refining process

Civil engineering: architectural, environmental, hydraulic, hydrologic, marine, sanitary, and structural engineering; transportation

Electrical engineering: communication, electronic engineering, power

Mechanical engineering: engineering mechanics

Metallurgy and materials engineering: ceramic engineering, mining, textile engineering, welding

Engineering nec: agricultural engineering, bioengineering, biomedical engineering, industrial and management engineering, nuclear engineering, ocean engineering, systems engineering

6. *Performer*. A performer is either an intramural group or an organization carrying out an operational function, or an extramural organization or a person receiving support or providing services under a contract or grant.

- a. *Intramural performers* are the agencies of the federal government. The work of these agencies is carried out directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself or are for funds that the agency transfers to another federal agency for performance of work, as long as the ultimate performer is that agency or any federal agency. If the ultimate performer is not a federal agency, the funds transferred are reported by the transferring agency under the appropriate extramural performer category (universities and colleges, other nonprofit institutions, or industrial firms).

Intramural activities cover not only actual intramural R&D performance but also the costs associated with planning and administration of both intramural and extramural programs by federal personnel. Intramural activities also include the costs of supplies and off-the-shelf equipment (equipment that has gone beyond the development or prototype stage) procured for use in intramural R&D. For example, an operational launch vehicle purchased from an extramural source by the National Aeronautics and Space Administration (NASA), and used for intramural performance of R&D, is reported as a part of the cost of intramural R&D.

- b. *Extramural performers* are organizations outside the federal sector that perform R&D with federal funds under contract, grant, or cooperative agreement. Only those costs associated with actual R&D performance are reported, but these costs would include costs of materials and supplies to carry out R&D activities. Note, however, that the costs of off-the-shelf supplies and equipment required to support intramural R&D and procured from extramural suppliers are considered



part of the costs of intramural performance and not part of the costs of extramural performance. Extramural performers are identified as follows:

- i. Industrial firms—organizations that may legally distribute net earnings to individuals or to other organizations.
- ii. Universities and colleges—institutions of higher education in the United States that offer at least 1 year of college-level study leading toward a degree. Included are colleges of liberal arts; schools of arts and sciences; professional schools, such as schools of engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.
- iii. Other nonprofit institutions—private organizations other than educational institutions whose net earnings in no part inure to the benefit of a private stockholder or individual and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.
- iv. Federally funded research and development centers (FFRDCs)—R&D-performing organizations that are exclusively or substantially financed by the federal government and are supported by the federal government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered by an industrial firm, a university, or another nonprofit institution. (A complete list of FFRDCs is provided in appendix D.)

In general, organizations included in the FFRDC category meet all the following criteria:

1. Its primary activities include one or more of the following: basic research, applied research, development, or management of R&D (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination).
  2. It is a separate operational unit within the parent organization or is organized as a separately incorporated organization.
  3. It performs actual R&D or R&D management either upon direct request by the federal government or under a broad charter from the federal government but in either case under the direct monitorship of the federal government.
  4. It receives its major financial support (70% or more) from the federal government, usually from one agency.
  5. It has, or is expected to have, a long-term relationship with its sponsoring agency (about 5 years or more), as evidenced by specific obligations assumed by it and the agency.
  6. Most or all of its facilities are owned by or are funded under contract with the federal government.
  7. It has an average annual budget (operating and capital equipment) of at least \$500,000.
- v. State and local governments—state and local government agencies, excluding state or local universities and colleges, agricultural experiment

stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such state and local institutions excluded in this category are included under the "universities and colleges" category in this report.) R&D activities under the state and local category are performed either by the state or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, federal R&D funds directed to state and local governments are reported only under this sector.

- vi. Foreign performers—foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as the North Atlantic Treaty Organization; United Nations Educational, Scientific, and Cultural Organization (UNESCO); and World Health Organization), performing R&D work abroad financed by the federal government. Excluded from the survey are U.S. agencies, organizations, or citizens performing R&D abroad for the federal government. The survey does not seek information on offshore payments. An exception in the past was made in the case of U.S. citizens performing R&D abroad under special foreign currency funds; these activities were included under "foreign performers" but have not been collected since the mid-1990s.
- vii. Private individuals. When an R&D grant or contract is awarded directly to a private individual, obligations incurred are placed under "industrial firms."

7. *Federal obligations for research performed at universities and colleges, by detailed field of science.* Only seven agencies are required to respond to the portion of the survey covering federal funding of research at universities and colleges, reported by detailed field of science. These seven agencies, the Departments of Agriculture, Defense, Energy, Health and Human Services, and Homeland Security; NASA; and NSF, represented approximately 98% of the federal research obligations to universities and colleges in FY 2006.

8. *Geographic distribution of FY 2006 R&D obligations.* Only the 11 largest R&D funding agencies are required to respond to the portion of the survey covering the geographic distribution of obligations for R&D and R&D plant. These 11 agencies, the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF, accounted for approximately 98% of total federal R&D and R&D plant obligations in FY 2006.

- a. For actual FY 2006 data, respondents were asked to provide the principal location (state or outlying area) of the work performed by the primary contractor, grantee, or intramural organization. When this information was not available, respondents were asked to assign the obligations to the location (state, outlying area, or U.S. offices abroad) of the headquarters of the U.S. primary contractor, grantee, or intramural organization.
- b. Obligations for basic research, applied research, and development were reported as a combined R&D amount for non-DOD agencies. However, DOD agencies break out development obligations by advanced technology development and major systems development. Therefore, obligations for basic research, applied research, advanced technology development, and major system development were reported as a combined R&D amount for DOD agencies.

Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the location of numerous subcontractors who perform most of the R&D.

- c. Specifically omitted from the geographic portion of the survey were R&D obligations to foreign performers and support of foreign performers. Foreign performer data, by country, are reported in a separate section of the Federal Funds Survey.

## Appendix B. Agencies Surveyed: Volumes 27-56

This appendix summarizes which federal agencies have reported to the Federal Funds Survey and have been included in Federal Funds reports for volume 27 (FY 1977–79) through volume 56 (FY 2006–08). For volume 56, actual data were collected for FY 2006, and estimates were collected for FY 2007 and FY 2008.

### Symbols and Acronyms

N = The agency did not exist as such; therefore, no data are available.

O = The agency existed but had no R&D to report.

T = The agency existed, but data were not collected at this level.

X = The agency existed, and data were collected and submitted by the agency.

Z = The agency existed but was unable to report.

DT&E = Developmental test and evaluation.

RDT&E = Research and development, testing, and evaluation.

### Volumes 27–36

Agency	Volume									
	27	28	29	30	31	32	33	34	35	36
<b>Department of Agriculture</b>	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	N	N	N	X	X	X	X	X	X	X
Agricultural Marketing Service	O	O	X	X	X	X	X	X	X	X
Agricultural Research Service	N	N	N	N	X	X	X	X	X	X
Agricultural Stabilization and Conservation Service	O	O	O	O	O	O	O	O	O	O
Animal and Plant Health Inspection Service	O	O	O	O	O	O	O	O	O	X
Cooperative State Research, Education, and Extension Service	N	N	N	N	X	X	X	X	X	X
Economic Research Service	N	N	N	N	X	X	X	X	X	X
Economics and Statistics Service	N	N	N	X	N	N	N	N	N	N
Economics, Statistics, and Cooperative Service	X	X	X	N	N	N	N	N	N	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	N	N	N	N	N	N	O	O	O	O
Foreign Agricultural Service	N	N	N	N	N	N	N	O	O	O
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection Packers and Stockyards Administration	O	O	O	O	O	O	O	O	X	X
Human Nutrition Information Service	N	N	N	N	X	X	X	X	X	X
National Agricultural Statistics Service	N	N	N	N	X	X	X	X	X	X
Natural Resources Conservation Service	N	N	O	O	O	O	O	O	O	O
Office of International Cooperation and Development	N	N	X	X	X	X	X	X	X	X
Office of Transportation	N	N	X	X	X	X	X	X	X	X
Rural Business-Cooperative Service	N	N	N	N	N	N	N	N	N	N
Rural Development Service	N	N	N	N	N	N	N	N	N	N
Science and Education Administration	T	T	T	T	N	N	N	N	N	N
Agricultural Research Service	X	X	X	X	N	N	N	N	N	N
Cooperative State Research Service	X	X	X	X	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N
<b>Department of Commerce</b>	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N
Maritime Administration	X	X	X	X	N	N	N	N	N	N
Minority Business Development Agency	X	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	X	N	N	N	N	N	N	N	N	N
National Institute of Standards and Technology	X	X	X	X	X	X	X	X	X	X
National Oceanic and Atmospheric Administration	X	X	X	X	X	X	X	X	X	X
National Technical Information Service	O	O	O	O	O	O	O	O	O	O
National Telecommunications and Information Administration	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	O	O	X	X	X	X	X	X	X	X
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	X	X	X	X	X	X	O	O	O	O

Agency	Volume									
	27	28	29	30	31	32	33	34	35	36
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O
<b>Department of Defense</b>	T	T	T	T	T	T	T	T	T	T
Defense Agencies	X	X	X	X	X	X	X	X	X	X
Chemical and Biological Defense	N	N	N	N	N	N	N	N	N	N
Defense Advanced Research Projects Agency	O	O	O	O	O	O	O	O	O	O
Defense Business Transformation Agency	N	N	N	N	N	N	N	N	N	N
Defense Contract Management Agency	N	N	N	N	N	N	N	N	N	N
Defense Information Systems Agency	O	O	O	O	O	O	O	O	O	O
Defense Logistics Agency	O	O	O	O	O	O	O	O	O	O
Defense Nuclear Agency	O	O	O	O	O	O	O	O	O	N
Defense Security Service	T	T	T	T	T	T	T	T	T	T
Defense Special Weapons Agency	O	O	O	O	O	O	O	O	O	O
Defense Technical Information Center	N	N	T	T	T	T	T	T	T	T
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	N
Joint Staff	O	O	O	O	O	O	O	O	O	O
Missile Defense Agency	O	O	O	O	O	O	O	O	O	O
National Imagery and Mapping Agency (formerly Defense Mapping Agency)	O	X	X	X	X	X	O	X	X	O
Special Operations Command	O	O	O	O	O	O	X	X	X	O
Uniformed Services University of the Health Sciences	O	O	O	O	O	O	O	O	O	O
Office of the Secretary of Defense	N	N	N	N	N	N	N	N	N	N
Washington Headquarters Services	X	X	X	X	X	X	X	X	X	O
Defense Civil Preparedness Agency	X	X	N	N	N	N	N	N	N	N
Department of the Air Force	X	X	X	X	X	X	X	X	X	X
DT&E Support From Operations and Maintenance	N	N	N	N	N	N	O	O	O	O
DT&E Support From Procurement Appropriations	N	N	N	N	N	N	O	O	O	O
Housing for Military Personnel in R&D	N	N	O	O	O	O	O	O	O	O
Materiel Command	T	T	T	T	T	T	T	T	T	T
Military Construction	X	X	X	X	X	X	X	X	X	O
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	X	X	O
RDT&E Appropriation	X	X	X	X	X	X	X	X	X	O
Space Command	T	T	T	T	T	T	T	T	T	T
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Department of the Army	T	T	T	T	T	T	T	T	T	T
Civil Functions	X	X	X	X	X	X	X	X	X	X
Housing for Military Personnel in R&D	N	N	O	O	O	O	O	O	O	O
Military Construction	X	X	X	X	X	X	X	X	X	O
Military Functions	X	X	X	X	X	X	X	X	X	X
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	X	X	O
RDT&E Appropriation	X	X	X	X	X	X	X	X	X	O
Special Foreign Currency Program	O	O	O	O	O	O	X	X	X	O
Support From Procurement Appropriations	N	N	O	O	O	O	O	O	O	O
Department of the Navy	X	X	X	X	X	X	X	X	X	X
DT&E Support From Operations and Maintenance	N	N	O	O	O	O	O	O	O	O
DT&E Support From Procurement Appropriations	N	N	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	N	N	O	O	O	O	O	O	O	O
Military Construction	X	X	X	X	X	X	X	X	X	O
Pay and Allowances of Military Personnel in R&D	X	X	X	X	X	X	X	X	X	O
RDT&E Appropriation	X	X	X	X	X	X	X	X	X	O
Special Foreign Currency Program	X	X	X	X	X	X	X	X	X	O
Health Affairs, Assistant Secretary of Defense for	N	N	N	N	N	N	N	N	N	N
Operational Test and Evaluation, Director	N	N	N	N	N	N	N	N	N	X
Test and Evaluation, Deputy Under Secretary of Defense	X	X	X	X	X	X	X	X	X	X
<b>Department of Education</b>	N	N	X	X	O	X	X	X	X	X
<b>Department of Energy</b>	X	X	X	X	X	X	X	X	X	X
Bonneville Power Administration	T	T	T	T	T	T	T	T	T	T
Civilian Radioactive Waste Management	N	N	N	N	N	N	T	T	T	T
Electricity Delivery and Energy Restoration	N	N	N	N	N	N	N	N	N	N
Energy Efficiency and Renewable Energy	T	T	T	T	T	T	T	T	T	T
Environmental Management	N	N	N	N	N	N	N	N	N	N
Fossil Energy	T	T	T	T	T	T	T	T	T	T
National Nuclear Security Administration	N	N	N	N	N	N	N	N	N	N
Defense Programs	N	N	N	N	N	N	N	N	N	N
Fissile Materials Disposition	N	N	N	N	N	N	N	N	N	N
Naval Reactors	N	N	N	N	N	N	N	N	N	N
Nonproliferation and Verification	N	N	N	N	N	N	N	N	N	N
Nuclear Energy	T	T	T	T	T	T	T	T	T	T

Agency	Volume									
	27	28	29	30	31	32	33	34	35	36
Office of Intelligence	T	T	T	T	T	T	T	T	T	T
Office of Science	T	T	T	T	T	T	T	T	T	T
<b>Department of Health, Education, and Welfare</b>	T	T	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, and Mental Health Administration	X	X	N	N	N	N	N	N	N	N
Center for Disease Control	X	X	N	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	X	X	N	N	N	N	N	N	N	N
Health Care Financing Administration	X	X	N	N	N	N	N	N	N	N
Health Resources Administration	X	X	N	N	N	N	N	N	N	N
Health Services Administration	X	X	N	N	N	N	N	N	N	N
Health Services and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Education	X	X	N	N	N	N	N	N	N	N
National Institutes of Health	X	X	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	X	X	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Health	X	X	N	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N
Office of Education	X	X	N	N	N	N	N	N	N	N
Office of Human Development Services	X	X	N	N	N	N	N	N	N	N
Office of International Health	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	N	N	N	N	N	N	N	N
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N
Social Security Administration	X	X	N	N	N	N	N	N	N	N
<b>Department of Health and Human Services</b>	N	N	T	T	T	T	T	T	T	T
Administration for Children and Families	N	N	N	N	N	N	N	N	N	N
Administration on Aging	N	N	N	N	N	N	N	N	N	N
Agency for Healthcare Research and Quality	N	N	N	N	N	N	N	N	N	N
(formerly Agency for Health Care Policy and Research)										
Agency for Toxic Substances and Disease Registry	N	N	N	T	T	T	T	T	T	T
Alcohol, Drug Abuse, and Mental Health Administration	N	N	X	X	X	X	X	X	X	X
Centers for Disease Control and Prevention	N	N	X	X	X	X	X	X	X	X
Centers for Medicare & Medicaid Services	N	N	X	X	X	X	X	X	X	X
(formerly Health Care Financing Administration)										
Food and Drug Administration	N	N	X	X	X	X	X	X	X	X
Health Resources Administration	N	N	X	X	X	N	N	N	N	N
Health Resources and Services Administration	N	N	N	N	N	X	X	X	X	X
Health Services Administration	N	N	X	X	X	N	N	N	N	N
Human Development Services	N	N	X	X	X	X	X	X	X	X
National Institutes of Health	N	N	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	N	N	X	X	X	X	X	X	X	X
Office of the Secretary	N	N	X	X	X	X	X	X	X	X
Office of the Assistant Secretary, Planning and Evaluation	N	N	N	N	N	N	N	N	N	N
Office of Public Health and Science	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	X	X	X	X	X	X	X	X
Substance Abuse and Mental Health Services Administration	N	N	N	N	N	N	N	N	N	N
<b>Department of Homeland Security</b>	N	N	N	N	N	N	N	N	N	N
Science and Technology Directorate	N	N	N	N	N	N	N	N	N	N
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N
U.S. Coast Guard	N	N	N	N	N	N	N	N	N	N
U.S. Secret Service	N	N	N	N	N	N	N	N	N	N
<b>Department of Housing and Urban Development</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of the Interior</b>	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	O	O	O	O	X	N	N	N	N	N
Bureau of Land Management	X	X	X	X	X	X	X	X	X	X
Bureau of Mines	X	X	X	X	X	X	X	X	X	X
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X
Heritage Conservation and Recreation Service	X	N	N	N	N	N	N	N	N	N
Minerals Management Service	N	N	N	N	N	X	X	X	X	X
National Biological Service	N	N	N	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Office of Surface Mining Reclamation and Enforcement	X	X	X	X	X	X	X	X	X	X

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	27	28	29	30	31	32	33	34	35	36
Office of Water Research and Technology	X	X	X	X	X	X	X	X	N	N
Office of Saline Water	N	N	N	N	N	N	N	N	N	N
Office of Water Resources Research	N	N	N	N	N	N	N	N	N	N
U.S. Fish and Wildlife Service	X	X	X	X	X	X	X	X	X	X
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries and Wildlife	N	N	N	N	N	N	N	N	N	N
<b>Department of Justice</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	X	X	X	X	X
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	X	X	X
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	X	X	X	X	X	X	X	X	X	X
<b>Department of Labor</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Apprenticeship and Training	N	N	N	N	N	N	N	N	N	N
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X
Employee Benefits Security Administration	N	N	N	N	N	N	N	X	X	X
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	X	X	X	X	X	X	X	X	X	X
Labor-Management Relations and Cooperative Programs	N	N	N	N	N	N	N	X	X	X
Labor-Management Services Administration	X	X	X	X	X	X	X	N	N	N
Occupational Safety and Health Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	N	N	N	N	X	X	X	X	X	X
Wage and Hour Division	N	N	O	O	O	O	O	O	O	O
<b>Department of State</b>	T	T	T	T	T	X	X	X	X	X
Agency for International Development	X	X	N	N	N	N	N	N	N	N
Bureau of Intelligence and Research	N	N	O	O	O	O	O	O	O	O
Departmental Funds	X	X	X	X	X	O	O	O	O	O
Peace Corps	N	N	O	O	O	O	O	O	O	O
<b>Department of Transportation</b>	T	T	T	T	T	T	T	T	T	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	N	N	N	N	N	N	N	N	N
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	N	N	X	X	X	X	X	X
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pipeline and Hazardous Materials Safety Administration	X	X	X	X	X	X	X	X	X	X
Research and Innovative Technology Administration	N	N	N	N	N	N	N	N	N	N
U.S. Coast Guard	X	X	X	X	X	X	X	X	X	X
<b>Department of the Treasury</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	X	X	X	X	X	N	N	N	N	N
Bureau of Engraving and Printing	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	O
Internal Revenue Service	O	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	N	N	N	N	N	N	N	N	N
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X
U.S. Mint	O	O	O	O	O	O	O	X	X	X
U.S. Secret Service	N	N	N	X	X	X	X	X	X	X
<b>Department of Veterans Affairs</b>	X	X	X	X	X	X	X	X	X	X
<b>Post Office Department</b>	N	N	N	N	N	N	N	N	N	N
<b>Other agencies</b>										
ACTION	X	X	X	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	X	X	X	X	X	X	X	X	X	X
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Governors	N	N	N	N	N	N	N	N	N	N

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	27	28	29	30	31	32	33	34	35	36
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	X	N	N	N	N	N	N	N	N	N
Community Services Administration	X	X	X	X	X	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	N	N	X	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	N	T	X	X	X	X	X	X	X	O
Defense Civil Preparedness Agency	N	N	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	N	X	O	O	O	O	O	O	O	O
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	N	N	X	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X
International Development Cooperation Agency	N	N	T	T	T	T	T	T	T	T
Agency for International Development	N	N	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	O	O	X	O	O	O	O	O	O	O
Interstate Commerce Commission	X	X	X	X	O	O	O	O	O	O
Library of Congress	X	X	X	X	X	X	X	X	X	X
National Aeronautics and Space Administration	X	X	X	X	X	X	X	X	X	X
National Archives and Records Administration	N	N	N	N	N	N	N	N	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	N	X	X	X	X	O	O	O	O	O
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	X	X	X	X	X	X	X	X	X	X
Postal Service	N	N	O	O	O	O	O	O	O	O
Small Business Administration	X	O	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	N	N	N	N	N	N	N
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	X	X	X	X
U.S. Arms Control and Disarmament Agency	X	X	X	X	X	X	X	X	X	X
U.S. Commission on Civil Rights	N	N	O	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	X	X	X	X	X	X	X
U.S. International Trade Commission	X	X	X	X	X	X	X	X	X	X

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Agency	Volume									
	37	38	39	40	41	42	43	44	45	46
<b>Department of Agriculture</b>	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	X	X	X	X	X	X	X	X	N	N
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	X	X	X	X	X	X	X	X	X	X
Agricultural Stabilization and Conservation Service	O	O	O	O	O	O	O	O	N	N
Animal and Plant Health Inspection Service	X	X	X	X	X	X	X	X	X	X
Cooperative State Research, Education, and Extension Service	X	X	X	X	X	X	X	X	X	X
Economic Research Service	X	X	X	X	X	X	X	X	X	X
Economics and Statistics Service	N	N	N	N	N	N	N	N	N	N
Economics, Statistics, and Cooperative Service	N	N	N	N	N	N	N	N	N	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	O	O	O	O	O	O	O	O	O	X
Foreign Agricultural Service	O	O	O	O	O	O	X	X	X	X
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection, Packers, and Stockyards Administration	X	X	X	X	X	X	X	X	X	X
Human Nutrition Information Service	X	X	X	X	X	X	X	X	N	N
National Agricultural Statistics Service	X	X	X	X	X	X	X	X	X	X
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O
Office of International Cooperation and Development	X	X	X	X	X	X	X	X	N	N
Office of Transportation	X	X	N	N	N	N	N	N	N	N
Rural Business-Cooperative Service	N	N	N	N	N	N	N	X	X	X
Rural Development Service	N	N	N	N	N	N	N	N	N	N



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	37	38	39	40	41	42	43	44	45	46
Science and Education Administration	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	N	N	N	N	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N
<b>Department of Commerce</b>	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Standards and Technology	X	X	X	X	X	X	X	X	X	X
National Oceanic and Atmospheric Administration	X	X	X	X	X	X	X	X	X	X
National Technical Information Service	O	O	O	O	O	O	O	O	O	O
National Telecommunications and Information Administration	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	O	O	O	O	O	O	O	O	O	O
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O
<b>Department of Defense</b>	T	T	T	T	T	T	T	T	T	T
Defense Agencies	T	T	T	T	T	T	T	T	T	T
Chemical and Biological Defense	N	N	N	N	N	N	N	N	N	N
Defense Advanced Research Projects Agency	O	O	O	X	X	X	X	X	X	X
Defense Business Transformation Agency	N	N	N	N	N	N	N	N	N	N
Defense Contract Management Agency	N	N	N	N	N	N	N	N	N	N
Defense Information Systems Agency	O	O	O	X	X	X	X	X	X	X
Defense Logistics Agency	O	O	O	X	X	X	X	X	X	X
Defense Nuclear Agency	N	N	N	N	N	N	N	N	N	N
Defense Security Service	T	T	T	T	T	T	T	T	T	T
Defense Special Weapons Agency	O	O	O	X	X	X	X	X	X	X
Defense Technical Information Center	T	T	T	T	T	T	T	T	X	T
Defense Threat Reduction Agency	N	N	N	N	N	N	N	N	N	N
Joint Staff	O	O	O	X	X	X	X	X	X	X
Missile Defense Agency	O	O	O	X	X	X	X	X	X	X
National Imagery and Mapping Agency	O	O	O	X	X	X	X	X	X	O
Special Operations Command	O	O	O	X	X	X	X	X	X	X
Uniformed Services University of the Health Sciences	O	O	O	X	X	X	X	X	N	N
Office of the Secretary of Defense	N	N	N	N	N	N	N	N	N	N
Washington Headquarters Services	O	O	O	X	X	X	X	X	X	X
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N
Department of the Air Force	X	X	X	X	X	X	X	X	X	X
DT&E Support From Operations and Maintenance	O	O	O	O	O	O	O	O	O	O
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Materiel Command	T	T	T	T	T	T	T	T	T	T
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Space Command	T	T	T	T	T	T	T	T	T	T
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Department of the Army	T	T	T	T	T	T	T	T	T	T
Civil Functions	X	X	X	X	X	X	X	X	X	X
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Military Functions	X	X	X	X	X	X	X	X	X	X
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Department of the Navy	X	X	X	X	X	X	X	X	X	X
DT&E Support From Operations and Maintenance	O	O	O	O	O	O	O	O	O	O
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O

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Health Affairs, Assistant Secretary of Defense for	N	N	N	N	X	O	O	O	O	O
Operational Test and Evaluation, Director	X	X	X	X	X	X	X	X	X	X
Test and Evaluation, Deputy Under Secretary of Defense	X	X	X	X	X	X	X	X	X	X
<b>Department of Education</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of Energy</b>	X	X	X	X	X	X	X	X	X	X
Bonneville Power Administration	T	T	T	T	T	T	T	T	T	T
Civilian Radioactive Waste Management	T	T	T	T	T	T	T	T	T	T
Electricity Delivery and Energy Restoration	N	N	N	N	N	N	N	N	N	N
Energy Efficiency and Renewable Energy	T	T	T	T	T	T	T	T	T	T
Environmental Management	N	N	T	T	T	T	T	T	T	T
Fossil Energy	T	T	T	T	T	T	T	T	T	T
National Nuclear Security Administration	N	N	N	N	N	N	N	N	N	N
Defense Programs	N	N	N	N	N	N	N	N	N	N
Fissile Materials Disposition	N	N	N	N	N	N	N	N	N	N
Naval Reactors	N	N	N	N	N	N	N	N	N	N
Nonproliferation and Verification	N	N	N	N	N	N	N	N	N	N
Nuclear Energy	T	T	T	T	T	T	T	T	T	T
Office of Intelligence	T	T	T	T	T	T	T	T	T	T
Office of Science	T	T	T	T	T	T	T	T	T	T
<b>Department of Health, Education, and Welfare</b>	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
Center for Disease Control	N	N	N	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	N	N	N	N	N	N	N	N	N	N
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Health Services and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Education	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	N	N	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N
Office of Education	N	N	N	N	N	N	N	N	N	N
Office of Human Development Services	N	N	N	N	N	N	N	N	N	N
Office of International Health	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	N	N	N	N	N	N	N
<b>Department of Health and Human Services</b>	T	T	T	T	T	T	T	T	T	T
Administration for Children and Families	N	N	N	N	X	X	X	X	X	X
Administration on Aging	N	N	N	N	X	X	X	X	X	X
Agency for Healthcare Research and Quality	N	N	N	X	X	X	X	X	X	X
Agency for Toxic Substances and Disease Registry	T	T	T	T	T	T	T	T	T	T
Alcohol, Drug Abuse, and Mental Health Administration	X	X	X	X	X	N	N	N	N	N
Centers for Disease Control and Prevention	X	X	X	X	X	X	X	X	X	X
Centers for Medicare & Medicaid Services (formerly Health Care Financing Administration)	X	X	X	X	X	X	X	X	X	X
Food and Drug Administration	X	X	X	X	X	X	X	X	X	X
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Resources and Services Administration	X	X	X	X	X	X	X	X	X	X
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Human Development Services	X	X	X	X	N	N	N	N	N	N
National Institutes of Health	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	X	X	X	X	X	X	X	X	X	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	N
Office of the Assistant Secretary, Planning and Evaluation	N	N	N	N	N	N	N	N	N	X
Office of Public Health and Science	N	N	N	N	N	N	N	N	N	X
Social Security Administration	X	X	X	X	X	X	X	X	X	N
Substance Abuse and Mental Health Services Administration	N	N	N	N	N	N	N	N	N	X
<b>Department of Homeland Security</b>	N	N	N	N	N	N	N	N	N	N
Science and Technology Directorate	N	N	N	N	N	N	N	N	N	N
Transportation Security Administration	N	N	N	N	N	N	N	N	N	N

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U.S. Coast Guard	N	N	N	N	N	N	N	N	N	N
U.S. Secret Service	N	N	N	N	N	N	N	N	N	N
<b>Department of Housing and Urban Development</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of the Interior</b>	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	X	X	X	X	X	X	X	O	O	O
Bureau of Mines	X	X	X	X	X	X	X	X	O	N
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X
Heritage Conservation and Recreation Service	N	N	N	N	N	N	N	N	N	N
Minerals Management Service	X	X	X	X	X	X	X	X	X	X
National Biological Service	N	N	N	N	N	N	X	X	X	N
National Park Service	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	X	X	X	X	X	X	X	X	O
Office of Surface Mining Reclamation and Enforcement	X	X	X	X	X	X	X	X	O	O
Office of Water Research and Technology	N	N	N	N	N	N	N	N	N	N
Office of Saline Water	N	N	N	N	N	N	N	N	N	N
Office of Water Resources Research	N	N	N	N	N	N	N	N	N	N
U.S. Fish and Wildlife Service	X	X	X	X	X	X	X	O	O	O
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries and Wildlife	N	N	N	N	N	N	N	N	N	N
<b>Department of Justice</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	X	X	X	X	X	X	X	X	X
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	X	X	X	X
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	X	O	O	O	O	O	O	O	O	O
<b>Department of Labor</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Apprenticeship and Training	N	N	N	N	N	N	N	N	N	N
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X
Employee Benefits Security Administration	X	X	X	X	X	X	X	X	X	X
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	X	X	X	X	O	O	O	O	O	O
Labor-Management Relations and Cooperative Programs	X	X	X	N	N	N	N	N	N	N
Labor-Management Services Administration	N	N	N	N	N	N	N	N	N	N
Occupational Safety and Health Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	X	X	X	X	X	X	X	X	X	X
Wage and Hour Division	O	O	O	O	O	O	O	O	O	O
<b>Department of State</b>	X	X	X	X	X	X	X	X	X	X
Agency for International Development	N	N	N	N	N	N	N	N	N	N
Bureau of Intelligence and Research	O	O	O	O	O	O	O	O	O	O
Departmental Funds	O	O	O	O	O	O	O	O	O	O
Peace Corps	O	O	O	O	O	O	O	O	O	O
<b>Department of Transportation</b>	T	T	T	T	T	T	T	T	T	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	N	N	N	N	N	N	X	N	N
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	X	N	N
Maritime Administration	X	X	O	X	X	X	X	X	X	O
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pipeline and Hazardous Materials Safety Administration	X	X	X	X	X	X	X	X	X	X
Research and Innovative Technology Administration	N	N	N	N	N	N	N	N	N	N
U.S. Coast Guard	X	X	X	X	X	X	X	X	X	X

Agency	Volume									
	37	38	39	40	41	42	43	44	45	46
<b>Department of the Treasury</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	N	N	N	N	N	N	N	N	N	N
Bureau of Engraving and Printing	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	O	O	O	O	X	X	X	O	O	O
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	N	N	N	O	X	X	X	X	X	X
U.S. Customs Service	X	X	X	X	X	X	X	X	X	X
U.S. Mint	X	X	X	X	X	X	X	X	X	X
U.S. Secret Service	X	X	X	X	X	X	X	X	X	X
<b>Department of Veterans Affairs</b>	X	X	X	X	X	X	X	X	X	X
<b>Post Office Department</b>	N	N	N	N	N	N	N	N	N	N
<b>Other agencies</b>										
ACTION	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	X	X	X	X	X	X	X	X	X	N
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Directors	N	N	N	N	N	N	N	N	N	N
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N
Community Services Administration	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	X	X	X	X	X	X	X	X
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	O	O	O	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	N	N	N	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	X
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T
Agency for International Development	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	O	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	O	O	O	O	O	O	O	O	O	O
Library of Congress	X	X	X	X	X	X	X	X	X	X
National Aeronautics and Space Administration	X	X	X	X	X	X	X	X	X	X
National Archives and Records Administration	X	X	X	X	X	X	X	X	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	O	O	O	O	O	O	O	O	O	O
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	X	X	X	X	N	N	N	N	N	N
Postal Service	O	O	O	O	O	O	O	O	O	O
Small Business Administration	O	O	O	O	O	O	O	O	O	O
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X
Social Security Administration	N	N	N	N	N	N	N	N	N	X
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	X	X	X	X	X	X	X	X
U.S. Arms Control and Disarmament Agency	X	X	X	X	X	X	X	X	X	X
U.S. Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	X	X	X	X	X	X	X
U.S. International Trade Commission	X	X	X	X	X	X	X	X	X	X

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Agency	Volume									
	47	48	49	50	51	52	53	54	55	56
<b>Department of Agriculture</b>	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	N	N	N	N	N	N	N	N	N	N
Agricultural Marketing Service	X	X	X	X	X	X	X	X	X	X
Agricultural Research Service	X	X	X	X	X	X	X	X	X	X

Agency	Volume									
	47	48	49	50	51	52	53	54	55	56
Agricultural Stabilization and Conservation Service	N	N	N	N	N	N	N	N	N	N
Animal and Plant Health Inspection Service	X	X	X	X	X	X	X	X	X	X
Cooperative State Research, Education, and Extension Service	X	X	X	X	X	X	X	X	X	X
Economic Research Service	X	X	X	X	X	X	X	X	X	X
Economics and Statistics Service	N	N	N	N	N	N	N	N	N	N
Economics, Statistics, and Cooperative Service	N	N	N	N	N	N	N	N	N	N
Economic Research Service	N	N	N	N	N	N	N	N	N	N
Farmer Cooperative Service	N	N	N	N	N	N	N	N	N	N
Statistical Reporting Service	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	X	X	X	X	X	Z	Z	Z	Z	Z
Foreign Agricultural Service	X	X	X	X	X	X	X	X	X	X
Forest Service	X	X	X	X	X	X	X	X	X	X
Grain Inspection, Packers, and Stockyards Administration	X	X	X	X	X	X	X	X	X	X
Human Nutrition Information Service	N	N	N	N	N	N	N	N	N	N
National Agricultural Statistics Service	X	X	X	X	X	X	X	X	X	X
Natural Resources Conservation Service	O	O	O	O	O	O	O	O	O	O
Office of International Cooperation and Development	N	N	N	N	N	N	N	N	N	N
Office of Transportation	N	N	N	N	N	N	N	N	N	N
Rural Business-Cooperative Service	X	X	X	X	X	X	X	X	X	X
Rural Development Service	N	N	N	N	N	N	N	N	N	N
Science and Education Administration	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	N	N	N	N	N	N	N	N	N	N
National Agricultural Library	N	N	N	N	N	N	N	N	N	N
<b>Department of Commerce</b>	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	X	X	X	X	X	X	X	X	X	X
Economic Development Administration	X	X	X	X	X	X	X	X	X	X
Environmental Science Services Administration	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Standards and Technology	X	X	X	X	X	X	X	X	X	X
National Oceanic and Atmospheric Administration	X	X	X	X	X	X	X	X	X	X
National Technical Information Service	O	O	O	O	O	O	O	O	O	O
National Telecommunications and Information Administration	X	X	X	X	X	X	X	X	X	X
Office of Productivity, Technology, and Innovation	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	X	O	O	O	O	O	O	O	O	O
Office of Telecommunications	N	N	N	N	N	N	N	N	N	N
Patent and Trademark Office	O	O	O	O	O	O	O	O	O	O
U.S. Travel and Tourism Administration	O	O	O	O	O	O	O	O	O	O
<b>Department of Defense</b>	T	T	T	T	T	T	T	T	T	T
Defense Agencies	T	T	T	T	T	T	T	T	T	T
Chemical and Biological Defense	N	N	N	X	X	X	X	X	X	X
Defense Advanced Research Projects Agency	X	X	X	X	X	X	X	X	X	X
Defense Business Transformation Agency	N	N	N	N	N	N	N	N	X	X
Defense Contract Management Agency	N	N	N	N	N	N	N	X	X	X
Defense Information Systems Agency	X	X	X	X	X	X	X	X	X	X
Defense Logistics Agency	X	X	X	X	X	X	X	X	X	X
Defense Nuclear Agency	N	N	N	N	N	N	N	N	N	N
Defense Security Service	T	T	T	T	T	T	T	T	X	X
Defense Special Weapons Agency	X	O	O	O	O	O	O	O	O	O
Defense Technical Information Center	T	T	T	T	T	T	T	T	X	X
Defense Threat Reduction Agency	N	X	X	X	X	X	X	X	X	X
Joint Staff	X	X	X	X	X	X	X	X	X	X
Missile Defense Agency	X	X	X	X	X	X	X	X	X	X
National Imagery and Mapping Agency (formerly Defense Mapping Agency)	O	O	O	O	O	O	O	O	O	O
Special Operations Command	X	X	X	X	X	X	X	X	X	X
Uniformed Services University of the Health Sciences	N	N	N	N	N	N	N	N	N	N
Office of the Secretary of Defense	N	N	N	N	N	N	N	N	N	X
Washington Headquarters Services	X	X	X	X	X	X	X	X	X	N
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N
Department of the Air Force	X	X	X	X	X	T	T	T	T	T
DT&E Support From Operations and Maintenance	O	O	O	O	O	O	O	O	O	O
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Materiel Command	T	T	T	T	T	X	X	X	X	X
Military Construction	O	O	O	O	O	O	O	O	O	O

Agency	Volume									
	47	48	49	50	51	52	53	54	55	56
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Space Command	T	T	T	T	T	X	X	X	X	X
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Department of the Army	T	T	T	T	T	T	T	X	X	X
Civil Functions	X	X	X	X	X	X	X	T	T	T
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Military Functions	X	X	X	X	X	X	X	T	T	T
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Department of the Navy	X	X	X	X	X	X	X	X	X	X
DT&E Support From Operations and Maintenance	O	O	O	O	O	O	O	O	O	O
DT&E Support From Procurement Appropriations	O	O	O	O	O	O	O	O	O	O
Housing for Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay and Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Health Affairs, Assistant Secretary of Defense for	O	O	O	O	O	O	O	O	O	O
Operational Test and Evaluation, Director	X	X	X	X	X	X	X	X	X	X
Test and Evaluation, Deputy Under Secretary of Defense	X	X	X	X	X	N	N	N	N	N
<b>Department of Education</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of Energy</b>	X	X	X	X	X	X	X	X	X	X
Bonneville Power Administration	T	T	T	T	T	T	X	X	X	X
Civilian Radioactive Waste Management	T	T	T	T	T	T	X	X	X	X
Electricity Delivery and Energy Restoration	N	N	N	N	N	N	N	N	X	X
Energy Efficiency and Renewable Energy	T	T	T	T	T	T	X	X	X	X
Environmental Management	T	T	T	T	T	T	X	X	X	X
Fossil Energy	T	T	T	T	T	T	X	X	X	X
National Nuclear Security Administration	N	N	N	T	T	T	X	X	X	X
Defense Programs	N	N	N	T	T	T	X	X	X	X
Fissile Materials Disposition	N	N	N	T	T	T	X	X	X	X
Naval Reactors	N	N	N	T	T	T	X	X	X	X
Nonproliferation and Verification	N	N	N	T	T	T	X	X	X	X
Nuclear Energy	T	T	T	T	T	T	X	X	X	X
Office of Intelligence	T	T	T	T	T	T	X	X	X	X
Office of Science	T	T	T	T	T	T	X	X	X	X
<b>Department of Health, Education, and Welfare</b>	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
Center for Disease Control	N	N	N	N	N	N	N	N	N	N
Environmental Health Service	N	N	N	N	N	N	N	N	N	N
Food and Drug Administration	N	N	N	N	N	N	N	N	N	N
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Health Services and Mental Health Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Education	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	N	N	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N
Office of Child Development	N	N	N	N	N	N	N	N	N	N
Office of Education	N	N	N	N	N	N	N	N	N	N
Office of Human Development Services	N	N	N	N	N	N	N	N	N	N
Office of International Health	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N
Social and Rehabilitation Service	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	N	N	N	N	N	N	N
<b>Department of Health and Human Services</b>	T	T	T	T	T	T	T	T	T	T
Administration for Children and Families	X	X	X	X	X	X	X	X	X	X
Administration on Aging	X	X	X	X	X	X	X	X	X	X
Agency for Healthcare Research and Quality	X	X	X	X	X	X	X	X	X	X
Agency for Toxic Substances and Disease Registry	T	T	T	X	X	X	X	X	X	X
Alcohol, Drug Abuse, and Mental Health Administration	N	N	N	N	N	N	N	N	N	N

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	47	48	49	50	51	52	53	54	55	56
Centers for Disease Control and Prevention	X	X	X	X	X	X	X	X	X	X
Centers for Medicare and Medicaid Services	X	X	X	X	X	X	X	X	X	X
Food and Drug Administration	X	X	X	X	X	X	X	X	X	X
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Resources and Services Administration	X	X	X	X	X	X	X	X	X	X
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Human Development Services	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	X	X	X	X	X	X	X	X	X	X
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary, Planning and Evaluation	X	X	X	X	X	X	X	X	X	X
Office of Public Health and Science	X	X	X	X	X	X	X	O	O	O
Social Security Administration	N	N	N	N	N	N	N	N	N	N
Substance Abuse and Mental Health Services Administration	X	X	X	X	X	X	X	X	X	X
<b>Department of Homeland Security</b>	N	N	N	N	N	T	Z	T	T	T
Science and Technology Directorate	N	N	N	N	N	Z	Z	X	X	X
Transportation Security Administration	N	N	N	N	N	X	Z	X	X	X
U.S. Coast Guard	N	N	N	N	N	X	X	X	X	X
U.S. Secret Service	N	N	N	N	N	N	X	X	X	X
<b>Department of Housing and Urban Development</b>	X	X	X	X	X	X	X	X	X	X
<b>Department of the Interior</b>	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	N	N	N	N	N	N	N	N	N	N
Bureau of Land Management	O	O	O	O	O	O	O	O	O	O
Bureau of Mines	N	N	N	N	N	N	N	N	N	N
Bureau of Reclamation	X	X	X	X	X	X	X	X	X	X
Federal Water Pollution Control Administration	N	N	N	N	N	N	N	N	N	N
Geological Survey	X	X	X	X	X	X	X	X	X	X
Heritage Conservation and Recreation Service	N	N	N	N	N	N	N	N	N	N
Minerals Management Service	X	X	X	X	X	X	X	X	X	X
National Biological Service	N	N	N	N	N	N	N	N	N	N
National Park Service	X	X	X	X	X	X	X	X	X	X
National Resources Library	N	N	N	N	N	N	N	N	N	N
Office of Coal Research	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	O	O	O	O	O	O	O	O	O	O
Office of Surface Mining Reclamation and Enforcement	O	O	O	O	O	O	O	O	O	O
Office of Water Research and Technology	N	N	N	N	N	N	N	N	N	N
Office of Saline Water	N	N	N	N	N	N	N	N	N	N
Office of Water Resources Research	N	N	N	N	N	N	N	N	N	N
U.S. Fish and Wildlife Service	O	O	O	O	O	O	O	O	O	O
Bureau of Commercial Fisheries	N	N	N	N	N	N	N	N	N	N
Bureau of Sport Fisheries and Wildlife	N	N	N	N	N	N	N	N	N	N
<b>Department of Justice</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	X	X	X	X	X	X	X	X	X	X
Drug Enforcement Administration	X	O	O	O	O	O	O	O	O	O
Federal Bureau of Investigation	X	X	X	X	X	X	X	X	X	X
Immigration and Naturalization Service	X	X	X	X	X	X	N	N	N	N
Office of Justice Programs	X	X	X	X	X	X	X	X	X	X
Office of Legal Policy	O	O	O	O	O	O	O	O	O	O
<b>Department of Labor</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Apprenticeship and Training	N	N	N	N	N	N	N	N	N	N
Bureau of Employment Security	N	N	N	N	N	N	N	N	N	N
Bureau of Labor Statistics	X	X	X	X	X	X	X	X	X	X
Employee Benefits Security Administration	X	X	X	X	X	X	X	X	X	X
Employment and Training Administration	X	X	X	X	X	X	X	X	X	X
Employment Standards Administration	O	O	O	O	O	O	O	O	O	O
Labor-Management Relations and Cooperative Programs	N	N	N	N	N	N	N	N	N	N
Labor-Management Services Administration	N	N	N	N	N	N	N	N	N	N
Occupational Safety and Health Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pension Benefit Guaranty Corporation	X	X	X	X	X	X	X	X	X	X
Wage and Hour Division	O	O	O	O	O	O	O	O	O	O
<b>Department of State</b>	X	X	X	X	X	X	X	X	X	X
Agency for International Development	N	N	N	N	N	N	N	N	N	N
Bureau of Intelligence and Research	O	O	O	O	O	O	O	O	O	O

Agency	Volume									
	47	48	49	50	51	52	53	54	55	56
Departmental Funds	O	O	O	O	O	O	O	O	O	O
Peace Corps	O	O	O	O	O	O	O	O	O	O
<b>Department of Transportation</b>	T	T	T	T	T	T	T	T	T	T
Federal Aviation Administration	X	X	X	X	X	X	X	X	X	X
Federal Highway Administration	X	X	X	X	X	X	X	X	X	X
Federal Motor Carrier Safety Administration	N	N	N	X	X	X	X	X	X	X
Federal Railroad Administration	X	X	X	X	X	X	X	X	X	X
Federal Transit Administration	X	X	X	X	X	X	X	X	X	X
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N
Maritime Administration	O	O	O	O	O	O	O	O	O	O
Materials Transportation Bureau	O	O	O	O	O	O	O	O	O	O
National Highway Traffic Safety Administration	X	X	X	X	X	X	X	X	X	X
Office of the Secretary	X	X	X	X	X	X	X	X	X	X
Pipeline and Hazardous Materials Safety Administration	X	X	X	X	X	X	X	X	X	X
Research and Innovative Technology Administration	N	N	N	N	N	N	N	X	X	X
U.S. Coast Guard	X	X	X	X	X	N	N	N	N	N
<b>Department of the Treasury</b>	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, and Firearms	N	N	N	N	N	N	N	N	N	N
Bureau of Engraving and Printing	X	X	X	X	X	X	X	X	X	X
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	O
Internal Revenue Service	X	X	X	X	X	X	X	X	X	X
Office of Thrift Supervision	X	X	X	X	X	X	Z	Z	Z	Z
U.S. Customs Service	X	X	X	X	X	X	N	N	N	N
U.S. Mint	X	X	X	X	X	X	X	X	X	X
U.S. Secret Service	X	X	X	X	X	X	N	N	N	N
<b>Department of Veterans Affairs</b>	X	X	X	X	X	X	X	X	X	X
<b>Post Office Department</b>	N	N	N	N	N	N	N	N	N	N
<b>Other agencies</b>										
ACTION	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	N	N	N	N	N	N	N	N	N	N
Appalachian Regional Commission	X	X	X	X	X	X	X	X	X	X
Atomic Energy Commission	N	N	N	N	N	N	N	N	N	N
Broadcasting Board of Governors	N	N	N	X	X	X	X	X	X	X
Civil Aeronautics Board	N	N	N	N	N	N	N	N	N	N
Civil Service Commission	N	N	N	N	N	N	N	N	N	N
Community Services Administration	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	X	X	O	O	O	O	O	O	O	O
Energy Research and Development Administration	N	N	N	N	N	N	N	N	N	N
Energy Security Trust Fund	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	X	X	X	X	X	X	X	X	X	X
Federal Communications Commission	X	X	X	X	X	X	X	X	X	X
Federal Emergency Management Agency	O	O	O	O	O	O	O	O	O	O
Defense Civil Preparedness Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention and Control Administration	O	O	O	O	O	O	O	O	O	O
Federal Energy Administration	N	N	N	N	N	N	N	N	N	N
Federal Trade Commission	X	X	X	X	X	X	X	X	X	X
Foundation for Educational Assistance	N	N	N	N	N	N	N	N	N	N
General Services Administration	X	X	X	X	X	X	X	X	X	O
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T
Agency for International Development	X	X	X	X	X	X	X	X	X	X
Institute for Scientific and Technological Cooperation	O	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	O	O	O	O	O	O	O	O	O	O
Library of Congress	X	X	X	X	X	X	X	X	X	X
National Aeronautics and Space Administration	X	X	X	X	X	X	X	X	X	X
National Archives and Records Administration	X	X	X	X	X	X	X	X	X	X
National Science Foundation	X	X	X	X	X	X	X	X	X	X
Nuclear Regulatory Commission	X	X	X	X	X	X	X	X	X	X
Office of Economic Opportunity	N	N	N	N	N	N	N	N	N	N
Office of Emergency Preparedness	N	N	N	N	N	N	N	N	N	N
Office of Personnel Management	O	O	O	O	O	O	O	O	O	O
Office of Science and Technology	N	N	N	N	N	N	N	N	N	N
Office of Telecommunications Policy	N	N	N	N	N	N	N	N	N	N
Office of Thrift Supervision	N	N	N	N	N	N	N	N	N	N
Postal Service	O	O	O	O	O	O	O	O	O	O
Small Business Administration	O	O	O	O	O	O	O	O	O	O



Agency	Volume									
	47	48	49	50	51	52	53	54	55	56
Smithsonian Institution	X	X	X	X	X	X	X	X	X	X
Social Security Administration	X	X	X	X	X	X	X	X	X	X
Special Action Office for Drug Abuse Prevention	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	X	X	O	O	O	O	O	O	O	O
U.S. Arms Control and Disarmament Agency	X	X	N	N	N	N	N	N	N	N
U.S. Commission on Civil Rights	O	O	O	O	O	O	O	O	O	O
U.S. Information Agency	X	X	X	N	N	N	N	N	N	N
U.S. International Trade Commission	X	X	X	O	O	O	O	O	O	O

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development.

## Appendix C. Notes Associated with Agencies Surveyed: Volumes 27-56

These notes include explanatory information on federal agencies' reports from volume 27 (FY 1977–79) to volume 56 (FY 2006–08) of the Federal Funds Survey. For volume 56, actual data were collected for FY 2006 and estimates were collected for FY 2007 and 2008.

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<b>Department of Agriculture</b>	
Agricultural Marketing Service	<p>Although the Agricultural Marketing Service was established in April 1972, FY 1979 was the first year in which Congress appropriated funds to this agency.</p> <p>Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.</p>
Agricultural Research Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
Agricultural Stabilization and Conservation Service	The Agricultural Stabilization and Conservation Service was abolished as of 20 October 1994.
Cooperative State Research, Education, and Extension Service	The Cooperative State Research Service merged with the Extension Service on 19 October 1994, to become the Cooperative State Research, Education, and Extension Service, due to reorganization of the Department of Agriculture.
Economic Research Service	<p>Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FY 1977–79.</p> <p>Data reported for the Economics and Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for FY 1980.</p>
Economics and Statistics Service	Data reported for the Economics and Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for FY 1980.
Economics, Statistics, and Cooperative Service	Data reported for the Economics, Statistics, and Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for FY 1977–79.
Federal Grain Inspection Service	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration assumed its functions.
Foreign Agricultural Service	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.
Grain Inspection, Packers, and Stockyards Administration	The Federal Grain Inspection Service was abolished on 20 October 1994, and the Grain Inspection, Packers, and Stockyards Administration assumed its functions.
Human Nutrition Information Service	The Human Nutrition Information Service merged with the Agricultural Research Service on 20 February 1994.
Office of International Cooperation and Development	The Office of International Cooperation and Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation and Development programs within FAS as of FY 1994.
Office of Transportation	Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.
Rural Business-Cooperative Service	This agency's name changed from the Rural Business and Cooperative Development Service to the Rural Business-Cooperative Service on 30 January 1996.
<b>Department of Commerce</b>	
Maritime Administration	In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.
National Fire Prevention and Control Administration	Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of 1 April 1979.
<b>Department of Defense</b>	
	<p>Department of Defense (DOD) research has been reported separately from DOD development since volume 40 (FY 1990–92). More than 90% of development reported by DOD for universities and colleges is performed at off-campus, university-affiliated laboratories that are not involved in teaching.</p> <p>DOD development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FY 1994–96).</p> <p>Not all DOD agencies with development obligations are able to categorize them according to the advanced technology and major systems development breakdown. Therefore, in the volume 46 (FY 1996–98) survey cycle, total DOD development does not equal the sum of total DOD advanced technology development and total DOD major systems development.</p>

Beginning with Volume 54 (FY 2004-06), the Department of Defense (DOD) now requires its reporting agencies to adhere to DOD control numbers when providing data to the NSF survey. This new reporting method has slowed DOD's response time to the NSF survey.

#### Defense Agencies

Chemical and Biological Defense	Before FY 2000 R&D of Chemical and Biological Defense was reported with the Washington Headquarters Services.
Defense Advanced Research Projects Agency	This agency's name changed to the Advanced Research Projects Agency on 13 July 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.
Defense Business Transformation Agency	The Defense Business Transformation Agency was established on 7 October 2005.
Defense Information Systems Agency	Data reported for the Defense Information Systems Agency included data for the Defense Technical Information Center (DTIC) until FY 2006, when the DTIC became a separate field activity.
Defense Mapping Agency	The Defense Mapping Agency merged with the newly created National Imagery and Mapping Agency on 1 October 1996.
Defense Special Weapons Agency	The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996 as a result of a new charter and an expanded mission.
	The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.
Defense Technical Information Center	In FY 2006 the Defense Technical Information Center became a separate field activity; in prior years, these data were reported as part of the Defense Information Systems Agency.
Defense Threat Reduction Agency	The Defense Threat Reduction Agency (DTRA) was established on 1 October 1998. DTRA was formed through a merger of elements of the Office of the Secretary of Defense staff, the Defense Technology Security Administration, the Defense Special Weapons Agency, and the On-Site Inspection Agency.
Joint Staff	The name of this agency changed from Joint Chiefs of Staff to Joint Staff in FY 1986.
National Imagery and Mapping Agency	The Defense Mapping Agency merged with the newly created National Imagery and Mapping Agency on 1 October 1996.
Office of the Secretary of Defense	In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.
Uniformed Services University of the Health Sciences	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of volume 45 (FY 1995-97).
Washington Headquarters Services	Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of volume 45 (FY 1995-97).
	Public Law No. 103-160, Section 1703 made the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the FY 1996-97 President's Budget. Data for these new program elements are included in the federal funds survey as of volume 46 (FY 1996-98). Since FY 2000, R&D of Chemical and Biological Defense has been reported separately from the Washington Headquarters Services.
	Washington Headquarters Services' basic research data were revised in volume 47 (FY 1997-99) to reflect changes that were not incorporated in volume 46 (FY 1996-98).
	In FY 2006, Washington Headquarters Service was renamed Office of the Secretary of Defense.

Defense Civil Preparedness Agency	Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on 20 July 1979.
Department of the Army Civil Functions	Department of the Army, Civil Functions (Corps of Engineers), development activities are appropriated by the Energy and Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown. For accounting purposes the funds are shown in the advanced technology total for the Department of the Army.
Operational Test and Evaluation, Director	On 7 June 1999 the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.
Test and Evaluation, Deputy Under Secretary of Defense	On 7 June 1999 the Secretary of Defense approved the disestablishment of the Office of the Director, Test, Systems Engineering and Evaluation. As a result of the restructure, the Director, Operational Test and Evaluation, assumed management responsibility for the Central Test and Evaluation Investment Program and the Test and Evaluation Program, excluding the Joint Test and Evaluation Program.

#### Department of Energy

	In 1977 the Energy Research and Development Administration became part of the Department of Energy.
	In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Bonneville Power Administration	In FY 1982 the Bonneville Power Administration became part of the Department of Energy.

#### Department of Health and Human Services

Administration on Aging	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.
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Administration for Children and Families	<p>Obligations reported for the Administration for Children and Families may be incomplete for FY 1992 due to unavailability of data.</p> <p>In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.</p>
Agency for Healthcare Research and Quality	<p>In FY 1991 the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health.</p> <p>The Agency for Health Care Policy and Research was renamed the Agency for Healthcare Research and Quality as stated in the Healthcare Research and Quality Act of 1999, signed by the President on 6 December 1999.</p>
Agency for Toxic Substances and Disease Registry	Prior to FY 2000, data reported for the Environmental Protection Agency include R&D data for the Agency for Toxic Substances and Disease Registry.
Alcohol, Drug Abuse, and Mental Health Administration	Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&D functions are reported with National Institutes of Health data beginning with FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.
Centers for Medicare and Medicaid Services	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Health Care Financing Administration	The Health Care Financing Administration became the Centers for Medicare and Medicaid Services as of 1 July 2001.
Human Development Services	In FY 1991 Human Development Services was replaced by the Administration for Children and Families (ACF) and by the Administration on Aging (AOA). Since FY 1992 data shown for ACF have been separate from obligations for AOA.
National Institutes of Health	<p>Due to reorganization within the Department of Health and Human Services, the Alcohol, Drug Abuse, and Mental Health Administration ceased to exist as of October 1992, and its R&amp;D functions have been reported with National Institutes of Health data since FY 1992. However, research support for some fields (such as psychology) in FY 1992 seems to be underreported.</p> <p>In FY 2000 the National Institutes of Health reclassified all of its development activities as research.</p> <p>NIH has revised its financial database, and beginning with FY 2004, NIH records no longer contain information on field of science and engineering. Data for FY 2004 and later years are not directly comparable to data for FY 2003 and earlier years.</p>
Office of the Assistant Secretary for Health	<p>In FY 1991 the Agency for Health Care Policy and Research became separate from the Office of the Assistant Secretary for Health.</p> <p>The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health, who became head of the Office of Public Health and Science, a new division within OS.</p>
Office of the Secretary	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health who became head of the Office of Public Health and Science, a new division within OS.
Office of Public Health and Science	The Office of the Assistant Secretary for Health merged with the Office of the Secretary (OS) as of FY 1996. The merger created a new role for the Assistant Secretary for Health, who became head of the Office of Public Health and Science, a new division within OS.
Social Security Administration	Effective 31 March 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Substance Abuse and Mental Health Services Administration	Data for FY 2003–06 from the Substance Abuse and Mental Health Services Administration (SAMHSA) are estimates based on SAMHSA's obligations by program activity budget and previously reported funding for development.
<b>Department of Homeland Security</b>	On 25 November 2002 the President signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the Science and Technology Directorate, Transportation Security Administration, U.S. Coast Guard, and U.S. Secret Service.
Science and Technology Directorate	The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to the Science and Technology Directorate.
<b>Department of the Interior</b>	
Bonneville Power Administration	In FY 1982 the Bonneville Power Administration became part of the Department of Energy.
Bureau of Land Management	In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.
Bureau of Mines	In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

Geological Survey	<p>The Office of Water Research and Technology has been combined with the Geological Survey since 1985.</p> <p>Funding for the National Biological Service (NBS) comes from the Geological Survey's congressional appropriation. Since FY 1996, data for the NBS have been included with the Geological Survey's submission.</p> <p>In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.</p>
National Biological Service	<p>The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994 NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.</p> <p>Funding for the National Biological Service (NBS) comes from the Geological Survey's congressional appropriation. Since FY 1996, data for the NBS have been included with the Geological Survey's submission.</p>
National Park Service	<p>The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994 NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.</p> <p>Obligations for FY 2003–08 are for National Park Service's (NPS) natural resources program; data for cultural resources program were not available.</p>
Office of the Secretary	The Department of Interior's Office of the Secretary has not funded any R&D activities since FY 1995.
Office of Water Research and Technology	The Office of Water Research and Technology has been combined with the Geological Survey since 1985.
U.S. Fish and Wildlife Service	The name of the National Biological Survey changed to the National Biological Service (NBS) on 5 January 1995. Since FY 1994 NBS has performed all biological research activities formerly funded by the U.S. Fish and Wildlife Service and the National Park Service.
<b>Department of Justice</b>	
Bureau of Prisons	The Bureau of Prisons was previously listed as the Federal Prison System.
Drug Enforcement Administration	Large differences exist between the Drug Enforcement Administration's FY 1996 and 1997 R&D funding amounts due to changes in the agency's R&D programs.
Immigration and Naturalization Service	<p>FY 1997–99 figures for the Immigration and Naturalization Service are based on the agency's volume 46 (FY 1996–98) submission.</p> <p>On 1 March 2003 service and benefit functions of the Immigration and Naturalization Service were transferred to the Department of Homeland Security as the U.S. Citizenship and Immigration Services.</p>
<b>Department of Labor</b>	
Labor-Management Relations and Cooperative Programs	In 1984 Labor-Management Relations and Cooperative Programs replaced the Labor-Management Services Administration.
Labor-Management Services Administration	In 1984 Labor-Management Relations and Cooperative Programs replaced the Labor-Management Services Administration.
<b>Department of State</b>	
Agency for International Development	<p>The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.</p> <p>Increases in outlays and obligations reported by the Department of State during the volume 44 (FY 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&amp;D performers.</p> <p>Effective 1 April 1999, all functions and authorities of the U.S. Arms Control and Disarmament Agency were transferred to the Department of State.</p> <p>On 1 October 1999, the U.S. Information Agency was integrated into the Department of State.</p> <p>The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.</p> <p>Increases in outlays and obligations reported by the Department of State during the volume 44 (FY 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&amp;D performers.</p>
<b>Department of Transportation</b>	
Federal Highway Administration	The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).
Federal Motor Carrier Safety Administration	The Federal Motor Carrier Safety Administration, formerly a part of the Federal Highway Administration, was established within the Department of Transportation on 1 January 2000, as stated in the Motor Carrier Safety Improvement Act of 1999 (Public Law No. 106-159, 113 Stat. 1748 [9 December 1999]).
Federal Transit Administration	The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on 18 December 1991.
Maritime Administration	<p>In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.</p> <p>Since FY 1996, the Maritime Administration has had no directly appropriated funding for R&amp;D activities.</p>

U.S. Coast Guard	On 25 November 2002 the President signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&D activities previously reported by the U.S. Coast Guard.
<b>Department of the Treasury</b>	
Internal Revenue Service	<p>Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, FY 1992 figures are taken from estimates made in the volume 41 (FY 1991–93) submission.</p> <p>Large changes in obligations reported by the Internal Revenue Service for volume 44 (FY 1994–96) are due to shifts in research funding.</p>
Office of Thrift Supervision	In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.
U.S. Customs Service	<p>FY 1997–99 figures for the U.S. Customs Service are estimates based on the agency's volume 46 (FY 1996–98) submission.</p> <p>Beginning in FY 2003 the U.S. Customs Service Research &amp; Development program was transferred to other subagencies of the Department of Homeland Security.</p>
U.S. Secret Service	<p>On 25 November 2002 the President signed the Homeland Security Act of 2002, establishing the Department of Homeland Security (DHS). DHS includes the R&amp;D activities previously reported by the U.S. Secret Service.</p> <p>The U.S. Secret Service was formerly listed as the Office of Protective Research.</p>
<b>Other agencies</b>	
Broadcasting Board of Governors	The Broadcasting Board of Governors became an independent federal entity on 1 October 1999, as mandated by the Foreign Affairs Reform and Restructuring Act (Public Law 105-277), signed by the President on 21 October 1998.
Environmental Protection Agency	Before FY 2000, data reported for the Environmental Protection Agency included R&D data for the Agency for Toxic Substances and Disease Registry.
Federal Emergency Management Agency	<p>Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on 20 July 1979.</p> <p>Functions for the National Fire Prevention and Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency on 1 April 1979.</p>
General Services Administration	Since 1985 the National Archives and Records Administration has been separate from the General Services Administration.
International Development Cooperation Agency	The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.
Agency for International Development	<p>Increases in outlays and obligations reported by the Department of State during the volume 44 (FY 1994–96) survey cycle reflect reporting of moneys received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&amp;D performers.</p> <p>The Agency for International Development's (AID) new integrated system for budget and accounting records does not contain codes for determining either fields of science and engineering or performer data. The National Science Foundation has estimated these data based on AID's Budget Authority (FY 2000–02) and AID's federal funds survey submission to volume 44 (FY 1994–96). More accurate data for AID will be reported in future volumes of this survey.</p> <p>The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on 1 October 1979.</p>
National Aeronautics and Space Administration	<p>During the volume 45 (FY 1995–97) survey cycle, the National Aeronautics and Space Administration made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software.</p> <p>In FY 2000 the National Aeronautics and Space Administration reclassified Space Station as physical asset, reclassified Space Station Research as equipment, and transferred funding for the program from R&amp;D to R&amp;D plant.</p> <p>Data for FY 2004 and later years may not be directly comparable to data for FY 2003 and earlier years. In FY 2004, NASA implemented a full cost budget approach, which includes all of the direct and indirect costs for procurement, personnel, travel, and other infrastructure related expenses relative to a particular program and project.</p> <p>In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&amp;D plant.</p>
National Archives and Records Administration	Since 1985 the National Archives and Records Administration has been separate from the General Services Administration.
National Science Foundation	The National Science Foundation has made changes to its field of science and engineering coding system, producing changes to some of the FY 1996 field of science data (such as mechanical engineering). These changes are reflected in the historical data tables.
Office of Thrift Supervision	In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

Social Security Administration	Effective 31 March 1995 the Social Security Administration became an independent agency; it is no longer part of the Department of Health and Human Services.
Tennessee Valley Authority	During the volume 47 (FY 1997–99) survey cycle, the Tennessee Valley Authority (TVA) made adjustments to its 1996, 1997, 1998, and 1999 R&D values to correct reporting errors. In recent years, most of the funds TVA has reported have been those invested by TVA's Office of Power, rather than congressionally appropriated funds. In addition, a substantial amount of congressionally appropriated funds earmarked for environmental compliance and site restoration was erroneously reported as R&D in past years. TVA has determined that these funds do not meet the criteria for classification as R&D spending. Some trend shifts are related to these adjustments, since TVA can only make revisions as far back as 1996.
U.S. Arms Control and Disarmament Agency	FY 1994 figures for the U.S. Arms Control and Disarmament Agency are estimates based on the agency's volume 43 (FY 1993–95) submission.  Effective 1 April 1999, all functions and authorities of the U.S. Arms Control and Disarmament Agency were transferred to the Department of State.
U.S. Information Agency	Data reported for the U.S. Information Agency include funds for the former International Communication Agency for FY 1977–81.  On 1 October 1999, the U.S. Information Agency was integrated into the Department of State.
U.S. International Trade Commission	In 2000 the U.S. International Trade Commission stopped classifying any of its activities as R&D.

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Source: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development.

## Appendix D. FFRDCs, by Agency and Type of Administration

The following is the master list of federally funded research and development centers (FFRDCs) provided to respondents at the time of the volume 56 data collection. The list is arranged by sponsoring agency and administering organization. Respondents used the FFRDC category to report funds obligated to centers identified on this list. FFRDC administrators are listed in parentheses.

### Department of Defense

#### Department of the Air Force

- Administered by universities and colleges, including university consortia  
Lincoln Laboratory (Massachusetts Institute of Technology), Lexington MA
- Administered by nonprofit institutions other than universities and colleges  
Aerospace FFRDC (The Aerospace Corp.), El Segundo CA  
Project Air Force (RAND Corp.), Santa Monica CA

#### Department of the Army

- Administered by universities and colleges, including university consortia  
Software Engineering Institute (Carnegie Mellon University), Pittsburgh PA
- Administered by nonprofit institutions other than universities and colleges  
Arroyo Center (RAND Corp.), Santa Monica CA

#### Department of the Navy

- Administered by nonprofit institutions other than universities and colleges  
Center for Naval Analyses (The CNA Corporation), Alexandria VA

#### National Security Agency

- Administered by nonprofit institutions other than universities and colleges  
Institute for Defense Analyses Communications and Computing FFRDC (Institute for Defense Analyses), Alexandria VA

#### Office of the Secretary of Defense

- Administered by nonprofit institutions other than universities and colleges  
Institute for Defense Analyses Studies and Analyses FFRDC (Institute for Defense Analyses), Alexandria, VA  
National Defense Research Institute (RAND Corp.), Santa Monica CA  
C3I FFRDC (MITRE Corp.), Bedford MA and McLean VA

### Department of Energy

#### Administered by industrial firms

- Idaho National Engineering and Environmental Laboratory (Bechtel BWXT Idaho LLC), Idaho Falls ID
- Sandia National Laboratories (Sandia Corp., a subsidiary of Lockheed Martin Corp.), Albuquerque NM
- Savannah River Technology Center (Westinghouse Savannah River Co.), Aiken SC

#### Administered by universities and colleges, including university consortia

- Ames Laboratory (Iowa State University of Science and Technology), Ames IA
- Argonne National Laboratory (University of Chicago), Argonne IL
- Ernest Orlando Lawrence Berkeley National Laboratory (University of California), Berkeley CA
- Fermi National Accelerator Laboratory (Universities Research Association Inc.), Batavia IL
- Lawrence Livermore National Laboratory (University of California), Livermore CA
- Los Alamos National Laboratory (University of California), Los Alamos NM
- Princeton Plasma Physics Laboratory (Princeton University), Princeton NJ
- Stanford Linear Accelerator Center (Leland Stanford, Jr., University), Stanford CA
- Thomas Jefferson National Accelerator Facility (Southeastern Universities Research Association Inc.), Newport News VA

#### Administered by nonprofit institutions other than universities and colleges

- Brookhaven National Laboratory (Brookhaven Science Associates Inc.), Upton, Long Island NY
- National Renewable Energy Laboratory (Midwest Research Institute), Golden CO
- Oak Ridge National Laboratory (UT-Battelle LLC), Oak Ridge TN
- Pacific Northwest National Laboratory (Battelle Memorial Institute), Richland WA

### Department of Health and Human Services

#### National Institutes of Health

##### Administered by industrial firms

- National Cancer Institute at Frederick (Science Applications International Corp.; Charles River Laboratories Inc.; Data Management Services Inc.; Wilson Information Services Inc.), Frederick MD

### Department of Homeland Security

#### Under Secretary for Science and Technology

- Administered by nonprofit institutions other than universities and colleges  
Homeland Security Institute (Analytic Services, Inc.), Arlington VA

### Department of Transportation

#### Federal Aviation Administration

- Administered by nonprofit institutions other than universities and colleges  
Center for Advanced Aviation System Development (MITRE Corp.), McLean VA

### Department of the Treasury

#### Internal Revenue Service (IRS)

- Administered by nonprofit institutions other than universities and colleges  
IRS FFRDC (Center for Enterprise Modernization, MITRE Corp.), McLean, VA

### National Aeronautics and Space Administration

- Administered by universities and colleges, including university consortia



Jet Propulsion Laboratory (California Institute of Technology), Pasadena CA  
National Science Foundation  
Administered by universities and colleges, including university consortia  
National Astronomy and Ionosphere Center (Cornell University), Arecibo PR  
National Center for Atmospheric Research (University Corp. for Atmospheric Research), Boulder CO  
National Optical Astronomy Observatories (Association of Universities for Research in Astronomy Inc.), Tucson AZ  
National Radio Astronomy Observatory (Associated Universities Inc.), Charlottesville VA & Green Bank, WV  
Administered by nonprofit institutions other than universities and colleges  
The Science and Technology Policy Institute (Institute for Defense Analyses), Washington DC  
Nuclear Regulatory Commission  
Administered by nonprofit institutions other than universities and colleges  
Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio TX

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SOURCE: National Science Foundation/Division of Science Resources Statistics. Updates of this list and an annotated list of FFRDCs are available at <http://www.nsf.gov/statistics/ffrdc/>.

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